

SIEMENS

syngo MammoReport

SP

System Manual

Installation and Start-up Instructions

System Installation

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Purpose of this document

The purpose of *syngo* MammoReport *Installation and StartUp Instructions* is to provide instructions on how to install and configure the basic *syngo* MammoReport system.

Target group

This manual is intended for customer support engineers.

Training of customer support engineers

The instructions in this guide include start-up procedures like network and printer settings, DICOM configuration, Settings and monitor calibration.

Due to the technology used for this equipment setup, service and maintenance must only be performed by a customer support engineer who have been trained in these areas.

Required documents

- Operator Manual SPB7-420.620.20...
- Quality Control Manual SPB7-420.621.20...
- Wiring Diagram SPB7-250.844.30...
- Planning Guide SPB7-250.891.30...
- Installation of Software VB11 SPB7-250.812.31...
- Quick Reference Guide, SMfit ACT, Automatic Calibration Tool, Release 3.2 or higher (included in monitor calibration tools, referred to as *Quick Reference Guide*)
- Instruction Manual, SMfit ACT, DIN6868-57, Plug-in (included in monitor calibration tools, referred to as *Instruction Manual*)
- MFGD 5621 HD - User Guide System Manual Coronis 5MP Mammo
- MediCal Pro Installation and User Guide
- CXtra User Guide

Required tools, measurement and auxiliary devices

NOTE

All tools, measurement and auxiliary devices marked “ * ”, are listed along with their specifications in the STC (Service Tools Catalogue).

- Standard service equipment*
- For system backups
 - at least 4 blank CD-Rs
- Monitor Calibration tools (for Siemens CRT/TFT), including:
 - SMfit ACT with Spotmeter
 - Quick Reference Guide
 - Instruction Manual
- Serial interface cable (Null Modem cable #99 00 440) (for Siemens CRT only)

Time required

For installation and configuration of the *syngo* MammoReport workstation a CSE will need approximately 4 hours.

Special Features

To configure special features refer to the chapters / sections as outlined below:

- **Read State Synchronization**

The entire configuration context is described in chapter 9: Read State Synchronization, but the individual steps are also described in the context of progression of start-up configuration. Therefore please pay attention to:

- chapter 4: Configuring Data Sheets
section: Read State Synchronization, page 4-10
- chapter 5: Settings in Windows XP Professional
section: Read State Synchronization, page 5-13
- chapter 6: syngo Settings
section: Read State Synchronization, page 6-13ff.
- chapter 7: SCR Service settings,
section: Licensing, page 7-11
- chapter 8: Customized System Settings
section: Read State Synchronization, page 8-8

- **Structured Reports:**

- chapter 4: Configuring Data Sheets
section: HIPAA and CAD Server Network Nodes, page 4-3
- chapter 5: Settings in Windows XP Professional
section: Size of CAD Markers and Micro calcifications, page 5-14
- chapter 6: syngo Settings
section: General DICOM Settings, page 6-9ff.
- chapter 7: SCR Service settings
section: Licensing, page 7-11

- **Audit Trails:**

- chapter 4: Configuring Data Sheets
section: HIPAA and CAD Server Network Nodes, page 4-3
- chapter 6: syngo Settings
section: General DICOM Settings, page 6-9f.
section: Active Auditing, page 6-21f.

- **Remote Service:**

- chapter 10: Siemens Remote Service, page 10-1

- **RIS Connector:**

- according to document RIS Configuration SPB7-250.812.33...

Safety information and protective measures

The product specific safety information contained in this document as well as the general safety information must be observed, see document Safety Information TD00-000.860.01...

NOTICE

Please note that this product is intended to be used in a non-patient environment.

Writing conventions

Text emphasis

 WARNING
--

WARNING indicates a risk of danger that may lead to death or to serious physical injury.

 CAUTION
--

CAUTION used with the safety alert symbol indicates a risk of danger that may lead to slight or moderate physical injury and/or damage to property.

NOTICE

NOTICE used without the safety alert symbol indicates a risk of danger that if disregarded leads or may lead to a potential situation which may result in an undesirable result or state other than death, physical injury or damage to property.

NOTE

NOTE contains information provided with special emphasis to facilitate proper use of the equipment or proper execution of a procedure, i.e. hints, tips.

Components included in delivery

The delivery contains the following parts

Quantity	Article
2	High resolution monitor
1	syngo monitor
1	Windows XP Professional operating system
1	<i>syngo</i> MammoReport software VB11
1	Workflow keypad
1	US/International syngo Keyboard (alternatively: Spanish, French, German, Swedish, Italian, Portuguese, Great Britain)
1	Mouse
4	Blank CD-R
1	Technical Manual
1	Operator Manual
1	Quality Control Manual
1	Manufacturer's documents for the high resolution monitors

Tab. 1 Items included in package

Acronyms and abbreviations

AE Title (AET)	DICOM Application Entity Title. Must be unique in a DICOM network
AWS	Acquisition Workstation
Conformance	Each manufacturer of a DICOM device has to provide such a statement which gives an overview of the product's DICOM capability.
CSE	Customer Support Engineer
DICOM	Digital Imaging and Communication in Medicine
DHCP	Dynamic Host Configuration Protocol. Reduces the complexity of configuring computers for TCP/IP networks. The following TCP/IP configuration can be dynamically assigned by a DHCP server: IP Address, Subnet masks, gateway and additional parameters such as domain names.
Dmax	The darkest area of an image that a device can reproduce and still have detail. A Dmax value of 4.0 would be considered perfect.
DNS	The Domain Name Service is used to resolve the TCP/IP address from a "user friendly host name".
Hub	Distributor in a network using the star topology
IM	Port address of image management to query/retrieve images on a MagicStore PACS
IP Address	32-bit address assigned to hosts using TCP/IP. An IP address belongs to one of four classes (A, B, C, D) and is written as 4 pairs separated with periods (decimal point format). The IP is part of the socket address. Here IP means Internet Protocol.
LDB	Local Database
MG	DICOM object Mammography
Q/R	Query / Retrieve is a service class which provides the ability to retrieve/transfer a well-identified set of images.
Port	Part of the socket address. Different DICOM services on the same host PC may use different port numbers.
Subnet mask	The subnet mask is used to extract network and sub network information from the IP address.
Router	A device that connects different networks. In a TCP/IP environment a router is used to connect computers that are located in different IP address ranges.
Service Class	A structured description of a service which is supported by cooperating DIOM Application Entities, e.g. Storage Service Class.
SCP	Service Class Provider, e.g. a Storage Service Class Provider provides the capability to receive DICOM images from a DICOM AET Storage SCU.
SCU	Service Class User, e.g. a DICOM Storage Service Class User can send an image to a DICOM Service Class Provider.
SMPTE	Society of Motion Picture and Television Engineers
TCP	Transfer Control Protocol
UI	User Interface
USC	Uptime Service Center
WINS	WINS provides a distributed database for registration and querying dynamic Net-BIOS names to IP addresses.

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Systems overview

The *syngo* MammoReport system comprises the following main components:

- Celsius R610 or Celsius R630
- Two high resolution monitors (R610 with CRT or TFT, R630 only with TFT)
- Workflow keypad
- syngo monitor
- *syngo* MammoReport software VB11
- Windows XP compatible printer, provided by the customer

NOTE

For identification purposes each TFT monitor contains a label with detailed color information.

NOTICE

If no printer is available, the customer will not be able to print reports.

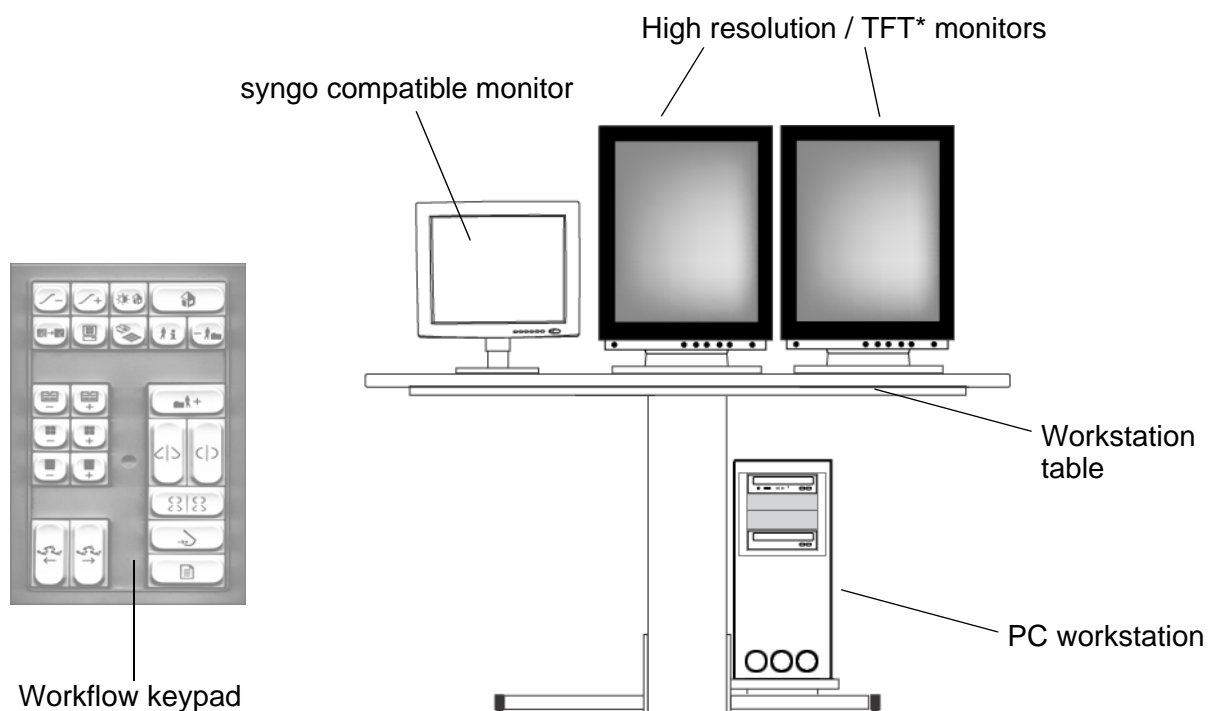


Fig. 1 Systems overview.

Optional extras for the *syngo* MammoReport system include:

- Celsius R610: extra hard disk 1 x 147 GB
- Celsius R630: extra hard disk 1 x 300 GB
- Archive system (e.g. MagicView 300, MagicStore)

NOTE

The workstation station table is provided by the customer. The table must support weight according to weight specifications, see Tab. 1, Page 2 - 3.

Room planning

Sample room plan and movement ranges

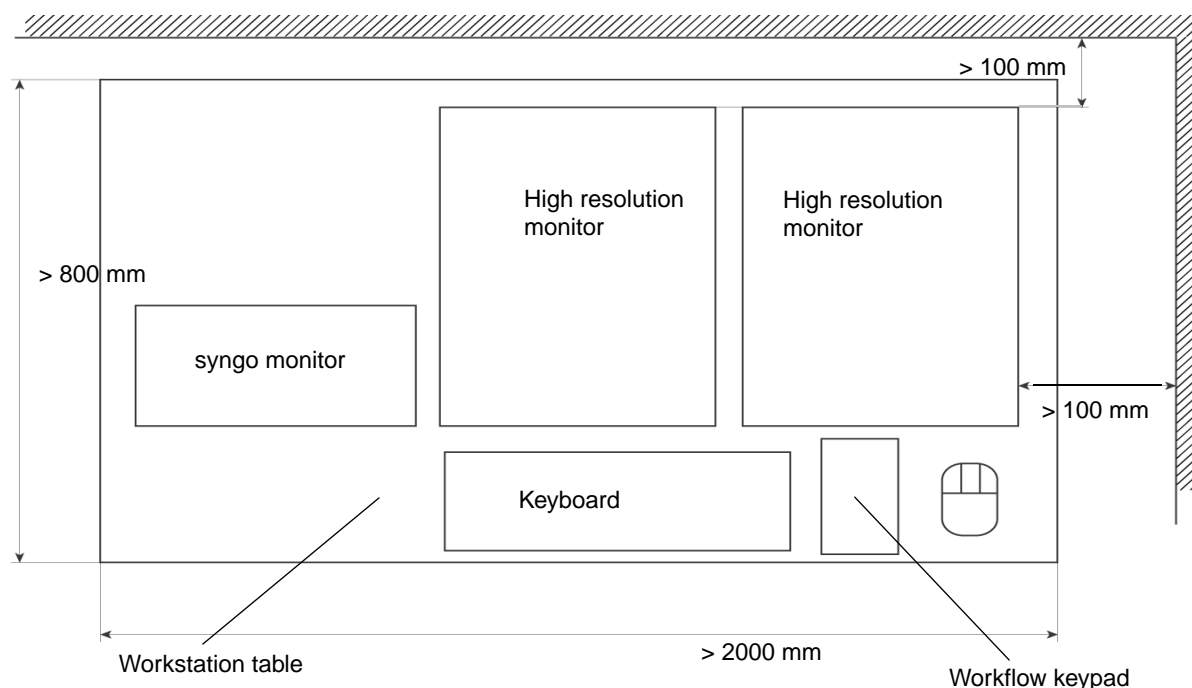


Fig. 2 Sample room plan.

This example places the Celsius workstation underneath the workstation table. The room planning should also make sure that there are no power cables/transformers adjacent to the monitors. The monitors should not be closer than 15 cm to other units.

NOTE

For cable lengths, see *syngo* MammoReport Wiring diagram, SPB7-250.844.30... .

NOTE

It is recommended that the *syngo* MammoReport is installed in a separate room from the acquisition system.

To comply with the requirements in DIN 6868-57 and to provide optimal viewing conditions for diagnosis lighting conditions in the room around the *syngo* MammoReport need to fulfil certain conditions. This is important to ensure that especially the darkest grayscale levels can be viewed.

The *syngo* MammoReport monitors must be positioned to avoid direct illumination and reflections on the monitors from light sources such as windows, lamps and light boxes. When viewing images on the *syngo* MammoReport the illumination should come from diffuse light sources and it is recommended that the ambient light level is below 10 cd/m². The monitors should also be illuminated as evenly as possible from different directions.

Weight specifications

The system will be delivered on two standard pallets, weighing approximately 130-140 kg. For component weights and dimensions see table below:

Component	Weight [kg]	Dimension (WxHxD) [mm]
Celsius Workstation	25	205x451x603
syngo monitor		
(Eizo)	5.6	368x425x198
(Siemens)	10	464x430x240
(DSC)	8.7	420x408-468(height adjustable)x210
High resolution monitor		
(CRT, SMM21201P)	2 x 33	403x580x520
(TFT, MFGD 5621HD)	2 x 13.5	408x592x217
(TFT, DSB 2103-D-5MP)	2 x 13.3	384x521x263
(TFT, Planar C5i)	2 x 6.9	406x512-590(height adjustable)x239

Tab. 1 Components weights and dimensions.

CAUTION

**The high resolution monitors are heavy.
Always handle the high resolution monitors with two people.**

Table weight support

- The side table must be able to support a weight of 5.6 kg / 10 kg minimum (syngo monitor).

CAUTION

The supported weight specifications in the tables are not valid if other equipment not belonging to the *syngo* MammoReport system is placed on the tables.

System connections/network

Overview of system connections

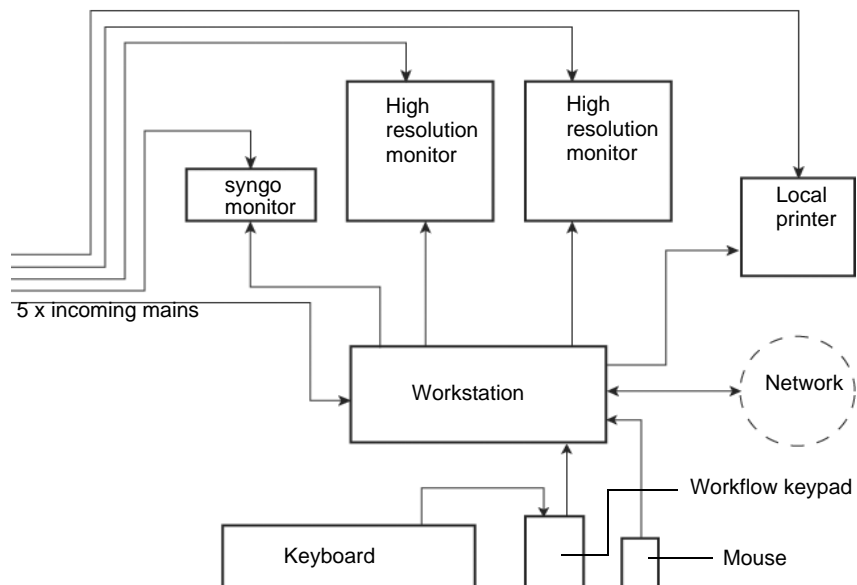


Fig. 3 Cable connections

NOTE

The *syngo* Mammography system can be connected to line voltage 100-240 V.

Check for completeness

Check the *syngo* MammoReport system for completeness according to the packing list.

Unpacking and setup of the workstation

Unpacking/transport

- Unpack accessories from the crate.
- Remove any protective film from the packaged items only at the installation site.
- All tables are provided by the customer.
- Move the workstation and accessories to the installation site via the planned transport route using suitable transport devices.
- Remove the protective film from the workstation.
- Unpack the monitors from the cartons.
- Move the monitors to the installation site via the planned transport route using suitable transport devices. Place the high-resolution monitors on the workstation table.
- Place the service monitor on the table.
- Place the computer on the shelf according to Fig. 1.

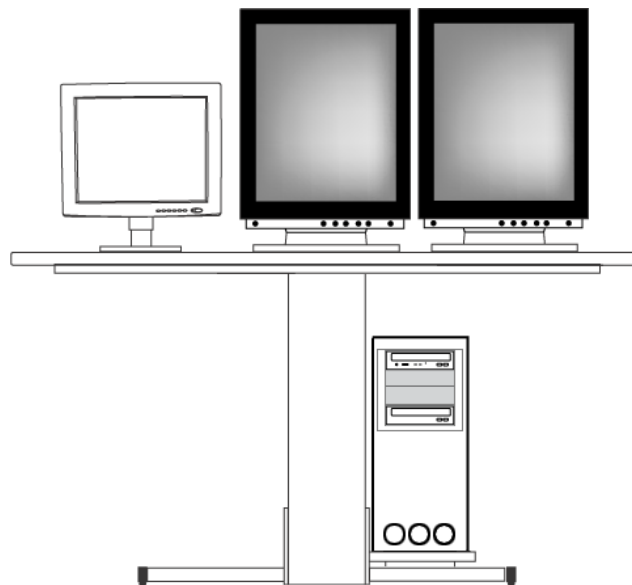


Fig. 1 Computer placement

NOTE

Only valid for Siemens TFT monitors: For identification purposes, each TFT monitor contains detailed color information labels.

Setup

- Connect the computer, monitors, workflow keypad, keyboard and mouse according to the *syngo* MammoReport Wiring Diagram, SPB7-250.844.30....

Laying and connecting the cables

Lay and connect the cables according to the *syngo* MammoReport Wiring Diagram, SPB7-250.844.30.... and *syngo* MammoReport Planning Guide, SPB7-250.891.30... .



Risk of stumbling and damage to property.

Use cable ties or cable ducts to arrange the cables in an organized way along the floor or wall.

syngo MammoReport Workstation

NOTICE

To ensure an effective startup, it is necessary to **FIRST** summarize the configuration data in the following tables. The data can be obtained from the site administrator.

Parameter	Configuration	Remarks
System serial no.		
Responsible USC telephone number		
Who is the administrator responsible for the customer's network	Name: Phone Number:	
Who is responsible for the physical network?	Name: Phone Number:	
Local Host (computer name)		Host name of the <i>syngo</i> MammoReport Workstation. Do not use more than 10 characters and no special characters
IP address Subnet mask		Host address and subnet mask
IP Gateway(s) address		IP addresses of the router
Own DICOM AE title:		The AET name must be unique in the network. Usually the AE title is set to the host name (upper case is recommended)
SCR port no.	50104	The port no. for SCR system should be fixed
SCR AE Title		The logical name of the network node must be SCR_SYNGO, the AE Titles should be different
syngo AET		
syngo port no.	5104	If the syngo port number is changed, the modifications listed in the NOTICE below must be carried out.

Tab. 1 syngo MammoReport workstation data sheet

NOTICE

If the syngo port number needs to be changed, make the following changes:

- C:\syngo\config\merge\mergecom.pro: Change the value of TCPIP_LISTEN_PORT

- registry:

HKEY_LOCAL_MACHINE\SOFTWARE\Siemens\MedCom\Config\Site\ArchNet_Common\tcpipListenPortNumber change decimal value

- in lightbox.ini: syngoPort, enter new value.

DICOM conformance statements

The necessary DICOM conformance statements must be available. Check the Interoperability Database for additional information:

URL:www.td.med.siemens.de. Collection: Product Information/DICOM.

Did you check the Interoperability Database?

☐ Yes

☐ No

Did you check the Conformance Statements?

☐ Yes

☐ No

CAUTION

Be careful when configuring target nodes for storage commitment. Before configuring the storage commitment, verify in the DICOM conformance statement of the node that the storage commitment is supported.

DICOM archive server / PACS

Parameter	Configuration	Remarks
Location		
Archive manufacturer		
SW version		
Logical name		This is the name as it will appear in the DICOM Setup user interface
Host (Node) name		
IP address		Not necessary if a DNS or WINS name resolution is available
DICOM: General AET Port no.:		

Tab. 2 DICOM server data sheet

Parameter	Configuration	Remarks
Storage AET Port no.		If applicable
Query/Retrieve AET Port no.		If applicable
Query/Retrieve IM AET Port no.		If applicable
Verification Port no.		If applicable
Data model:		Patient root or study root

Tab. 2 DICOM server data sheet

HIPAA and CAD Server Network Nodes

Parameter	Configuration	Remarks
HIPAA: AET IP Address Port No.		
CAD Server: AET IP Address Port No.		

Tab. 3 HIPAA and CAD server data sheet (optional)

DICOM printer (1)

Parameter	Configuration	Remarks
Manufacturer		
Model		
Dmax		
Dmin		
Film size [pixels]	Portrait: Landscape:	
DICOM AET		
IP address		
Port no.		

DICOM printer (2)

Parameter	Configuration	Remarks
Manufacturer		
Model		
Dmax		
Dmin		
Film size [pixels]	Portrait: Landscape:	
DICOM AET		
IP address		
Port no.		

Tab. 4 DICOM printers data sheet

System Settings

The system settings should be customized with the responsible administrator or radiologist.

Settings in SCR Administration

The following settings are configurable in SCR Administration, Settings tab (open via syngo PatientBrowser, Options menu):

Parameter	Default Setting	Check
Scheduling	On	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Off	<input type="checkbox"/> Yes <input type="checkbox"/> No
Reporting	BI-RADS	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Closing a Case with Report	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Closing a Case	<input type="checkbox"/> Yes <input type="checkbox"/> No
Threshold	Warning Level: %	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Critical Level: %	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Age of studies: days	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Delete unread studies	<input type="checkbox"/> Yes <input type="checkbox"/> No
Automatic Deletion	On	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Off	<input type="checkbox"/> Yes <input type="checkbox"/> No
Double Reading	Double blind	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Not blind	<input type="checkbox"/> Yes <input type="checkbox"/> No
Worklists	Unread Studies	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Unread Studies Screening/Diagnostic	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Second Read	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Second Read Screening/Diagnostic	<input type="checkbox"/> Yes <input type="checkbox"/> No
	with Institution list	<input type="checkbox"/> Yes <input type="checkbox"/> No
Predefined Window/Level Values	Window factor (1):	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Level shift (1):	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Window factor (2):	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Level shift (2):	<input type="checkbox"/> Yes <input type="checkbox"/> No
Incoming Studies	Screening	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Diagnostic	<input type="checkbox"/> Yes <input type="checkbox"/> No
Screening	To be single read	<input type="checkbox"/> Yes <input type="checkbox"/> No
	To be double read	<input type="checkbox"/> Yes <input type="checkbox"/> No

Tab. 5 System settings

Parameter	Default Setting	Check
Diagnostic	To be single read	<input type="checkbox"/> Yes <input type="checkbox"/> No
	To be double read	<input type="checkbox"/> Yes <input type="checkbox"/> No
IgnorePatientOrientation	to be set only for manufacturer FUJI PHOTO FILM CO., LTD.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Tab. 5 System settings

See also Patient Orientation, page 5-9

NOTICE

If Report Settings “BI-RADS” or “Closing a Case with reporting” are set, a paper printer driver will need to be installed so that the reports can be printed. For that purpose reboot the system while holding the shift key and install the printer driver as OS user “administrator”.

Settings in lightbox.ini**NOTE**

The following settings should only be changed if requested by the customer or Siemens application specialists.

Digiscan Model Name

Parameter	Default Setting	Changed
DigiscanModelName:	DIGISCAN	<input type="checkbox"/> Yes <input type="checkbox"/> No
	new value:	

Tab. 6 DigiscanModelName

This entry ensures the right order of the dose for Digiscan images. If the order of dose is incorrect, this entry needs to be adapted. To find the correct string, right-click in the MammoNavigator on a thumbnail of a DigiScan image and check the Model name.

Gamma Correction

Parameter	Default Setting	Changed
gamma+:	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
	new value:	
gamma-:	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
	new value:	

Tab. 7 Gamma correction

These entries correspond with Gamma Correction values in SCR User Preferences, Tools tab (open via syngo PatientBrowser, Options menu). If these values are not suitable for a radiologist they may be adapted as needed (e.g. to 5 if the correction is insufficient).

If the Gamma Correction value is set to **High** in the User Preferences, the configured number in **gamma+** corresponds to the number of mouse clicks that you normally click to achieve this value manually.

If the Gamma Correction value is set to **Low** in the User Preferences, the configured number in **gamma-** corresponds to the number of mouse clicks that you normally click to achieve this value manually.

GE for Presentation:

Parameter	Default Setting	Changed
GE_ForPresentation:	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 0	

Tab. 8 GE for Presentation

This entry is necessary to achieve a better presentation of GE Images.

An additional entry in **ManufacturerConfiguration.ini** is also necessary: "GE MEDICAL SYSTEMS:-:DisableLutHandling"

Sorting the work list on high resolution monitors:

Parameter	Default Setting	Changed
SortingAlphabetically:	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 1	

Tab. 9 Sorting the work list

This entry defines that patients in worklists are ordered by study date and time (default) or alphabetically. If you set the value to 1, patients are sorted alphabetically by name.

Warning to be displayed on presentation images:

As default setting there are no warnings shown on images ready for presentation for the following manufacturer:

Parameter	Default Setting	Changed
WARN_HOLOGIC, Inc.:	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 1	
WARN_LORAD:	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 1	
WARN_GE MEDICAL SYSTEMS:	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 1	
WARN_Fischer Imaging Corporation:	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 1	

Tab. 10 GE for Presentation

Parameter	Default Setting	Changed
WARN_Siemens Health Services:	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 1	

Tab. 10 GE for Presentation

Images that are ready for presentation do not contain the warning "not for diagnostic purpose" shown for the specified manufacturer with value **0**. Value **1** or **no WARN entry** means that the warning is displayed on images for presentation.

Disable Matrox driver:

Parameter	Default Setting	Changed
DisableMatroxDriver:	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	possible other value: 0	

Tab. 11 GE for Presentation

This entry is **necessary** for MATROX CRT and MATROX TFT installations.

Clahe value:

Parameter	Default Setting	Changed
ClaheVal:	15	<input type="checkbox"/> Yes <input type="checkbox"/> No
	new value: 0	

Tab. 12 GE for Presentation

This entry defines the mixture of 85/15 of normal / clahe image for enhancement of MG images.

AWS software version with special CLAHE:

Parameter	Default Setting	Changed
NovationSWVersion:	VA11A,VA11B,VA11C,VA11D	<input type="checkbox"/> Yes <input type="checkbox"/> No
	new value:	
SpecialClaheVal:	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	new value:	

Tab. 13 GE for Presentation

This entry controls the enhancement of Novation images. This depends on the AWS software version, e.g. VA11A, VA11B, VA11C and VA11D. If the enhancement does not look right, this entry needs to be adjusted.

Manufacturer Configuration

(These settings are optional, to be configured in ManufacturerConfiguration.ini)

Manufacturer	Option	Check
	AcceptForProcessing	<input type="checkbox"/> Yes <input type="checkbox"/> No
	DisableLutHandling	<input type="checkbox"/> Yes <input type="checkbox"/> No
	PreferVOILUTSequence	<input type="checkbox"/> Yes <input type="checkbox"/> No
	PresentationIntentType=....	<input type="checkbox"/> Yes <input type="checkbox"/> No
	AcceptForProcessing	<input type="checkbox"/> Yes <input type="checkbox"/> No
	DisableLutHandling	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Prefer VOI LUT	<input type="checkbox"/> Yes <input type="checkbox"/> No
	W/L values	<input type="checkbox"/> Yes <input type="checkbox"/> No
	AcceptForProcessing	<input type="checkbox"/> Yes <input type="checkbox"/> No
	DisableLutHandling	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Prefer VOI LUT	<input type="checkbox"/> Yes <input type="checkbox"/> No
	W/L values	<input type="checkbox"/> Yes <input type="checkbox"/> No
	AcceptForProcessing	<input type="checkbox"/> Yes <input type="checkbox"/> No
	DisableLutHandling	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Prefer VOI LUT	<input type="checkbox"/> Yes <input type="checkbox"/> No
	W/L values	<input type="checkbox"/> Yes <input type="checkbox"/> No

Tab. 14 Manufacturer configuration data sheet

See also Manufacturer Configuration, page 5-11f.

Scanner LUT Configuration

(These settings are optional, to be configured in scanner.ini)

See also Scanner LUT Configuration, page 5-12

Manufacturer	Parameter	Value
	LUT filename (mandatory)	
	Manufacturers model name	
	Software Version	
	DetectorID	
	SOPClassUID	
	Study Date	

Tab. 15 Scanner LUT data sheet

Manufacturer	Parameter	Value
	LUT filename (mandatory)	
	Manufacturers model name	
	Software Version	
	DetectorID	
	SOPClassUID	
	Study Date	

Tab. 15 Scanner LUT data sheet

Read State Synchronization

(These settings are optional, to be configured in **C:\MBCSCR\SyncConfiguration.ini**)

See also Read State Synchronization, page 5-13

Parameter	Value	Remarks
Timeout		value in seconds
IP Address 1		
Port No.		
Synctime		
Synctime 2		optional
Synctime 3		optional
IP Address 2		
Port No.		
Synctime		
Synctime 2		optional
Synctime 3		optional

Tab. 16 Read State Synchronization data sheet

NOTE

Do not enter more than 3 *Synctime* values.

For *Synctime* entries use a time zone where there is less network traffic and database operations on the *syngo* MammoReport system, e. g. in the night or before the start of the working day in the morning.

NOTE

We recommend that you enter different synchronization times for all connected workplaces to avoid a network traffic overload.

Routed modalities from syngo to SCR

see also Routing of modalities from syngo to SCR, page 5-15.

Routed modalities	
-------------------	--

Tab. 17 Modalities routed from syngo to SCR

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Requirements

System Requirements

The system requirements are described in the Planning Guide SPB7-250.891.30... and in chapter 2, "Systems overview".

General Requirements

- The PC must be operational and connected to the network.
- The *syngo* MammoReport dongle must be connected to the parallel port (D25 connector).
- All required data for configuration must be available, e.g. the checklists in chapter 4, "Configuring Data Sheets" must be fully completed.

Log in as Administrator in Windows XP

1. Boot the computer.
2. Press Shift key while booting is in progress.
3. Log in as user **Administrator** in Windows.

Check TFT Monitor Order

These steps should only be performed for **TFT** type display systems.

1. Click on Monitor 1 and move down to bottom line - the display order should be as shown in next figure.

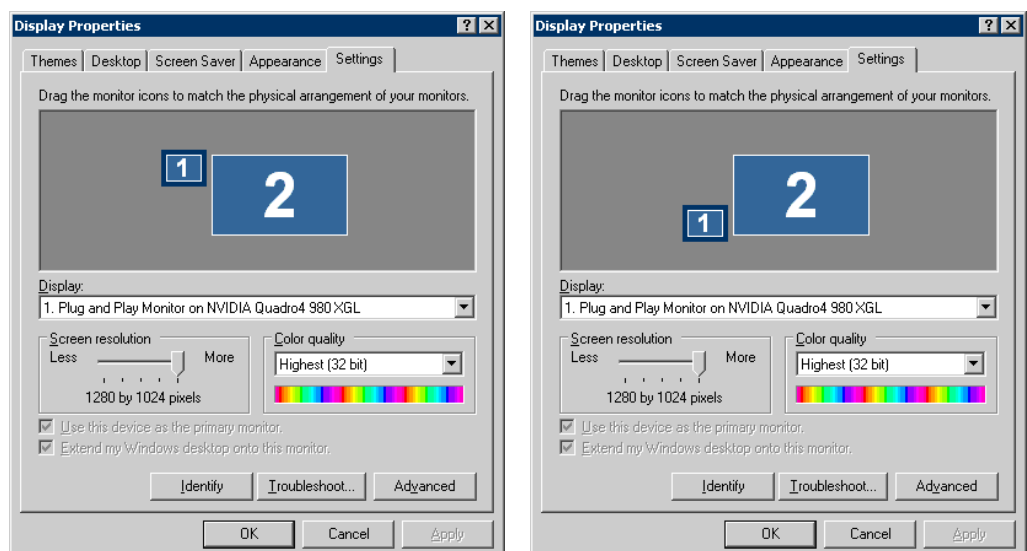


Fig. 1 Monitor display settings

2. Click **OK** twice to exit the display properties, but do **not** restart the Computer.

Checking Drive Assignments

This step is to ensure that the drives are assigned correctly.

The partitions should be:

Drive “Med_System” (C:)

This is the smaller hard disk used for OS and application components for DICOM.

DVD drive (D:)

CD-RW drive (E:): only used with R610

NOTE

If the drive letter for DVD (D:\) [or CD-RW (E:\) for R610] is not correct, select Disk Manager to change the drive letter manually.

1. If drive(s) are not correctly assigned, change the drive letter(s) as follows:
2. Right-click on My Computer ⇒ Manage ⇒ **Disk Management**.
3. Right-click on **DVD-Drive** ⇒ Change Drive Letter and Paths ⇒ Change ⇒ **Assign ...** and select D:\ from list.
4. Only for R610: Right-click on **CD-Drive** ⇒ Change Drive Letter and Paths ⇒ Change ⇒ **Assign ...** and select E:\ from list.
5. Accept the message box that is displayed, do **not** boot the computer now.

Drive “Med_Data” (F:) for Disk Type *Basic*

1 hard disk is used for storing images.

NOTICE

Before a database restore is performed, the generated directories have to be copied back to C:\.

Drives “Med_Data” (F:) and “SCR_Data” (G:) for Disk Type *Option*

1 hard disk and 1 additional hard disk are used for storing images.

NOTICE

Before a database restore is performed, the generated directories have to be copied back to C:\.

Optional: Installation of Safety Package

If the customer ordered the safety package proceed with the following steps.

CAUTION

Only Trend Virus Scanner shall be used. This virus scanner does not remove any infected files, but pops up a message, when infection is detected.

WARNING

If virus scanner is installed, a firewall needs to be present.

Install virus scanner

Start the following batch file for installation:

1. D:\VirusScanner\install.bat
2. Batch file is running and virus scanner is installed automatically. A message appears when installation is finished.

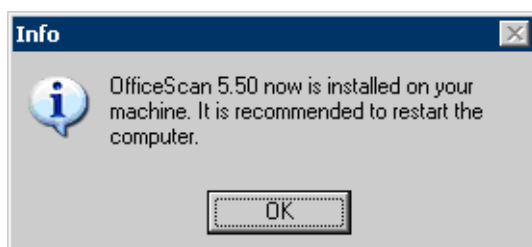


Fig. 2 Message: Virus Scanner Installation complete

3. Click **OK** and restart computer manually.
4. **Press shift key** while booting and log in as **OS administrator**.

Configure the Safety Options and Settings

1. Click on the **virus scanner icon** on the **task bar** to open the **Office Scan Client**.

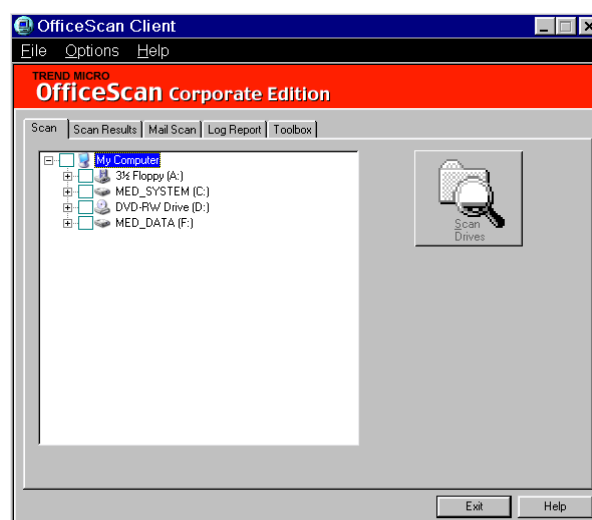
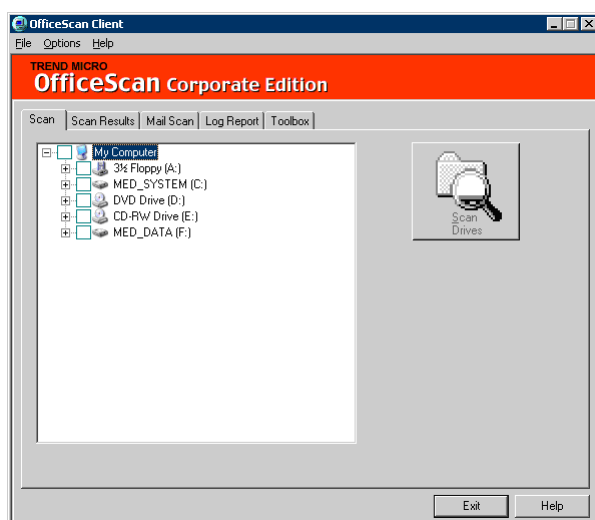


Fig. 3 Office Scan Client: Example for R610 with optional data disk (left) and for R630 basic (right)

2. Open menu ⇒ **Options** ⇒ **Exclusion List** - check that the first four entries are as shown in the figure below (otherwise add to exclusion list).

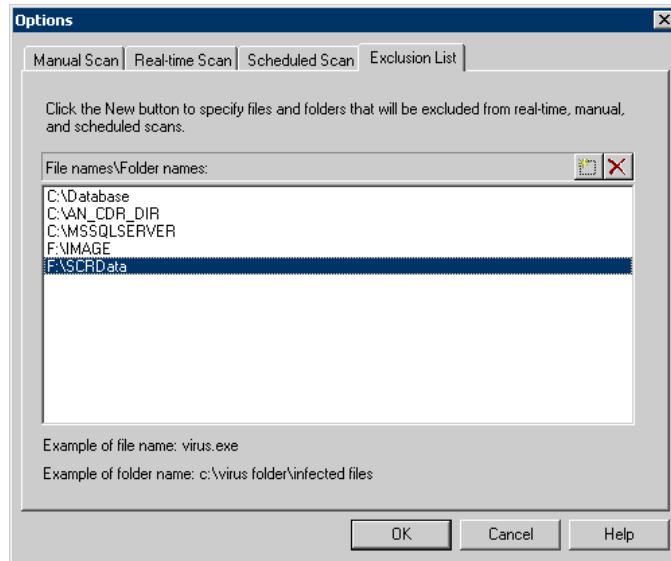


Fig. 4 Tab: Exclusion List

- **For R610 / R630 with only 1 data disk (Basic):**
Click the **Add** button beside the Delete button and enter **F:\SCRData** - press return key.
- **For R610 with additional data disk (Option):**
Click the **Add** button beside the Delete button and enter **G:\SCRData** - press return key.

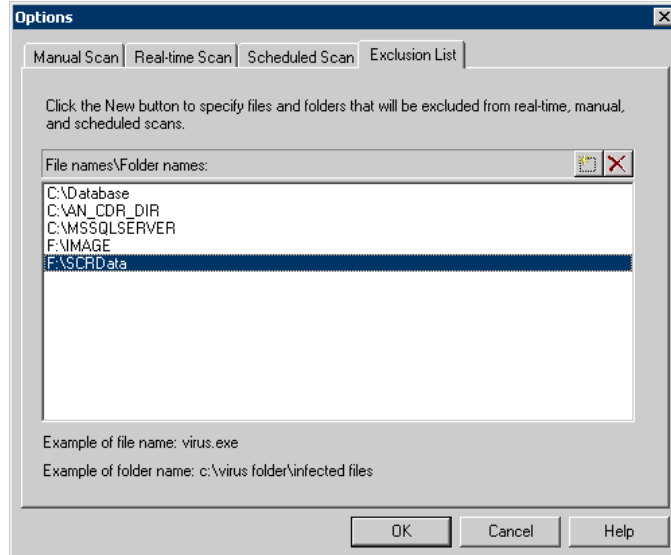


Fig. 5 Final Folders Exclusion List

- **For R630 with additional data disk (Option):**
Click the **Add** button beside the Delete button and enter **G:\SCRData as well as F:\SCRData** - press return key.
3. Click on **OK** to save the settings and change to **Scheduled Scan** tab.
 4. Configure scheduled scan. The default setting for the scheduled scan is weekly at midnight. It should be set to daily.

5. **Change** the value in the list box **Schedule Frequency** to **Daily**, Time should be **12:00 pm**.

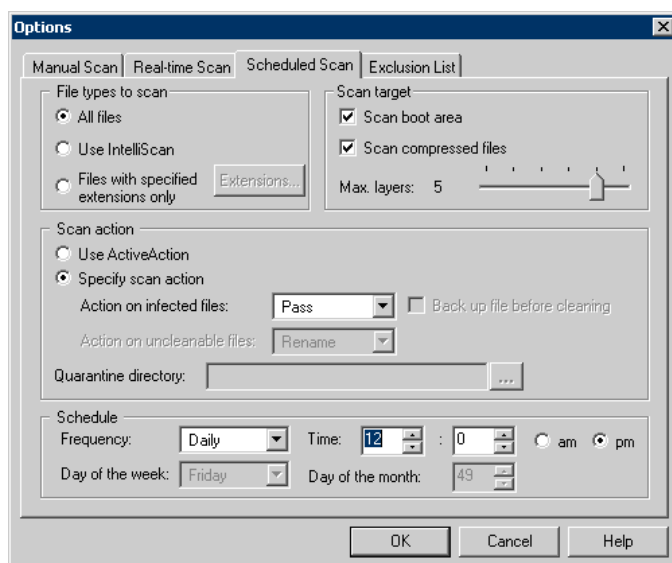


Fig. 6 Schedule frequency: Daily 12:00 pm

6. Click **OK** to save the settings and **exit** Virus Scan Client.

NOTICE

If a new Virus scanner engine is available, check first if this engine version is released for customer installations, before updating the engine!

Update of Virus Scanner Pattern

This section describes the installation of TREND MICRO virus pattern update on *syngo* MammoReport.

NOTE

This is only necessary if TREND MICRO virus scanner is already installed.

NOTE

If a virus scanner needs to be installed, refer to SPB7-420-814-20

...

1. If necessary, log in as OS administrator and make sure that D:\ drive is empty.
2. Insert Installation DVD *syngo* MammoReport VB11 into D:\ drive.
3. Run **D:\VirusScanner\oscanwsptn_2811_310805.exe** - installation is completed automatically.
4. Check on windows taskbar that virus scan icon shows pattern 811.

Changing Language Settings

To change the language:

1. Double click on **LanguageSelector.exe** in C:\MBCSCR.
The following dialog appears:



Fig. 7 Language Selector

2. Choose language and confirm with **OK**.

The language settings in lightbox.ini will then automatically be changed to the selected language.

Currently four languages are available: English, French, German and Spanish.

Language	Setting in lightbox.ini
English	gb
French	fr
German	ger
Spanish	es

Tab. 1 Language Settings in lightbox.ini

NOTE

For a Swedish version English language should be selected.

NOTE

All messages generated by Windows XP will still be displayed in English, even if the default language for *syngo* MammoReport is set to a different language.

Changing the Keyboard Driver

Needs to be performed when production is carried out with predefined language setting.

The *syngo* MammoReport workstation is delivered with one of the following keyboards:

- US International keyboard:
 - Default input language: English (United States)
 - Installed service / Keyboard Layout: United States-International
- German keyboard:
 - Default input language: German (Germany)
 - Installed service / Keyboard Layout: German
- French keyboard:
 - Default input language: French (France)
 - Installed service / Keyboard Layout: French
- Spanish keyboard:
 - Default input language: Spanish (Spain)
 - Installed service / Keyboard Layout: Spanish
- Italian keyboard:
 - Default input language: Italian (Italy)
 - Installed service / Keyboard Layout: Italian
- Portuguese keyboard:
 - Default input language: Portuguese (Portugal)
 - Installed service / Keyboard Layout: Portuguese
- English keyboard:
 - Default input language: English (United Kingdom)
 - Installed service / Keyboard Layout: United Kingdom
- Swedish keyboard:
 - Default input language: Swedish (Sweden)
 - Installed service / Keyboard Layout: Swedish

NOTE

To correct the fonts for Italian, Portuguese or Swedish keyboard run batch D:\batch\languages\import_<x>.bat, with x = Italian, Portuguese or Swedish.

To change the keyboard language follow the steps below:

1. As user OS administrator select Windows **Start Menu** ⇒ **Settings** ⇒ **Control Panel**.

2. In Control Panel double click **Regional and Language** tab.

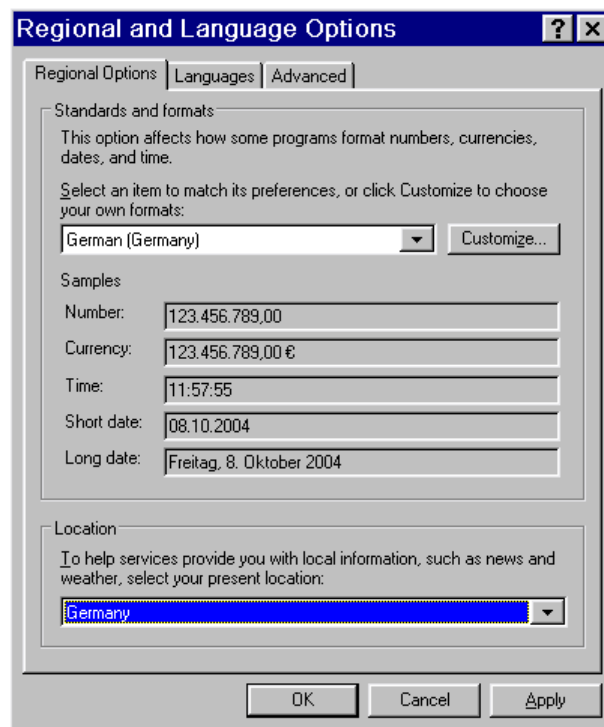


Fig. 8 Regional and Language Options

3. Choose **format** and **location** as required. Click **Apply**.
4. Click on **Languages** tab. Click **Details** button.

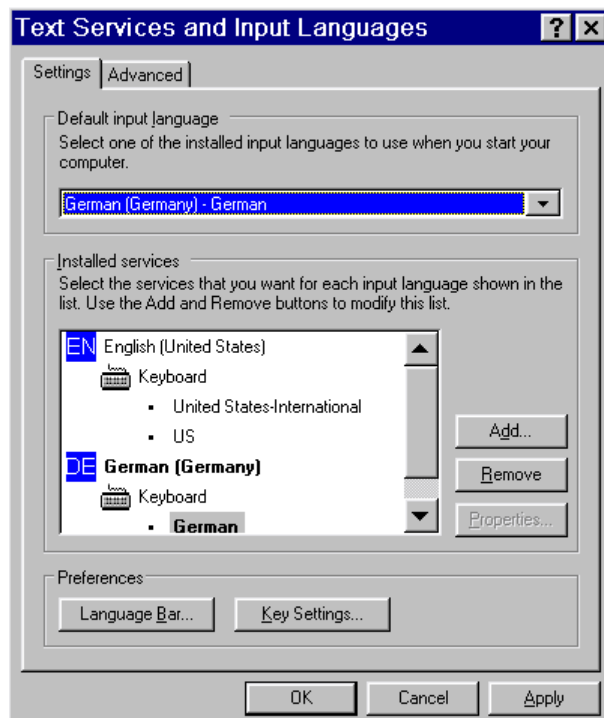


Fig. 9 Text Services and Input Languages

5. Select **Default input language** and **Installed services**. Click **OK**.
6. Click OK again.

7. Restart the system.

Turning off Warnings

If images contain the warning message *Image is not for medical diagnostic purposes*, check the manufacturer entry in image properties.

If the manufacturer entry is *HOLOGIC, Inc.* and the customer has a DROC workstation, the warning message can be turned off.

NOTE

Only warnings on MG images “for presentation” can be turned off.

Enter the following line into the C:\MBCSCR\Lightbox.ini file:

```
WARN_HOLOGIC, Inc.:0
```

NOTE

Entries in the lightbox.ini for manufacturers to be turned off have to be authorized by Siemens.

Patient Orientation

These settings are necessary if DICOM MG images contain an incorrect patient orientation. Ignore Patient Orientation is configured using the file **C:\MBCSCR\IgnorePatientOrientation.ini**.

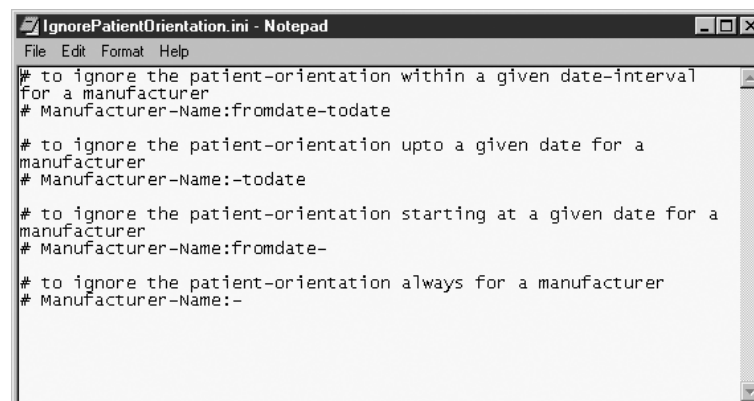


Fig. 10 IgnorePatientOrientation.ini

The entries of the configuration file have the following format:

- Comments start with #, the rest of the line after # is ignored.

There are four different methods to define the time interval of study dates to be ignored. Dates are to be entered in the format: YYYYMMDD.

- YYYY four digits defining the year, e.g. **2003**
- MM two digits defining the month, e.g. **02** for February

- DD two digits defining the day, e.g. 28.

NOTE

If a date is invalid or empty it will be ignored.

Intervals can be defined using the manufacturer tag from the DICOM header (this information can be found in the image information window in the MammoNavigator of the *syngo* MammoReport system).

Example:

```
FUJI PHOTO FILM CO., LTD.
```

Method 1: Define a start and end date

```
manufacturername:fromdate-todate
```

Example:

```
FUJI PHOTO FILM CO., LTD.:20030115-20030315
```

For DICOM MG images from manufacturer FUJI PHOTO FILM CO., LTD. with study date from January 15th 2003 until March 15th 2003 (both dates are included) the patient orientation tag will be ignored.

Method 2: Define only an end date

```
manufacturername:-todate
```

Example:

```
FUJI PHOTO FILM CO., LTD.:20030315
```

For DICOM MG images from manufacturer FUJI PHOTO FILM CO., LTD with study date up to March 15th 2003 (included) the patient orientation tag will be ignored.

Also if **fromdate** is not a valid date or empty, the patient orientation for each study before **todate** will be ignored, e.g. in the following entry the **fromdate** will be ignored:

```
FUJI PHOTO FILM CO., LTD.:20030229-20030315
```

Method 3: Define only a start date

```
manufacturername:fromdate-
```

Example:

```
FUJI PHOTO FILM CO., LTD.:20030315-
```

For DICOM MG images from manufacturer FUJI PHOTO FILM CO., LTD with study date from March 15th 2003 (included) the patient orientation tag will be ignored.

NOTE

Check these settings if an update of the modality of that manufacturer system is performed.

Method 4: Define no date

```
manufacturername:-
```

Example:

```
FUJI PHOTO FILM CO., LTD.:-
```

For DICOM MG images from manufacturer FUJI PHOTO FILM CO., LTD the patient orientation tag will be ignored.

NOTE

Check these settings if an update of the modality of that manufacturer system is performed.

Manufacturer Configuration

These settings are necessary if for certain manufacturers

- images are to be accepted for processing (**default:** images are not accepted)
- the LUT in the image DICOM header is not to be applied (**default:** LUT is applied)

Manufacturer configuration is performed using the file **C:\MBCSCR\ManufacturerConfiguration.ini**.

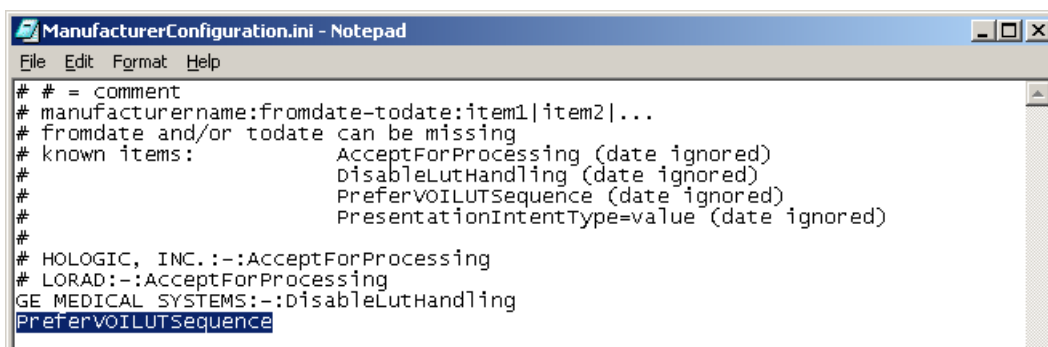


Fig. 11 ManufacturerConfiguration.ini

Example:

```
FUJI PHOTO FILM CO., LTD.:-:AcceptForProcessing|Disable-
LutHandling
```

In this example, images from the manufacturer **FUJI** are accepted for processing but the LUT from the image DICOM header is not applied.

Note that the two conditions are separated by a | (pipe) character. Comments start with #, the rest of the line after # is ignored.

Preferring W/L values or VOI LUT

In the **ManufacturerConfiguration.ini** you can configure if either the W/L values or the VOI LUT are applied if both are present in the DICOM Header.

- By default, the W/L pair will be applied, and the VOI LUT is ignored.

- If the VOI LUT is to be applied and the W/L pair is to be ignored, enter the line `PreferVOILUTSequence` in `ManufacturerConfiguration.ini` (see Fig. 11).

Scanner LUT Configuration

These settings are necessary if a special LUT (stored in **C:\MBCSCR\Lut**) is to be applied for certain (scanned) images. Scanner LUT configuration is done in **C:\MBC-SCR\scanner.ini**.

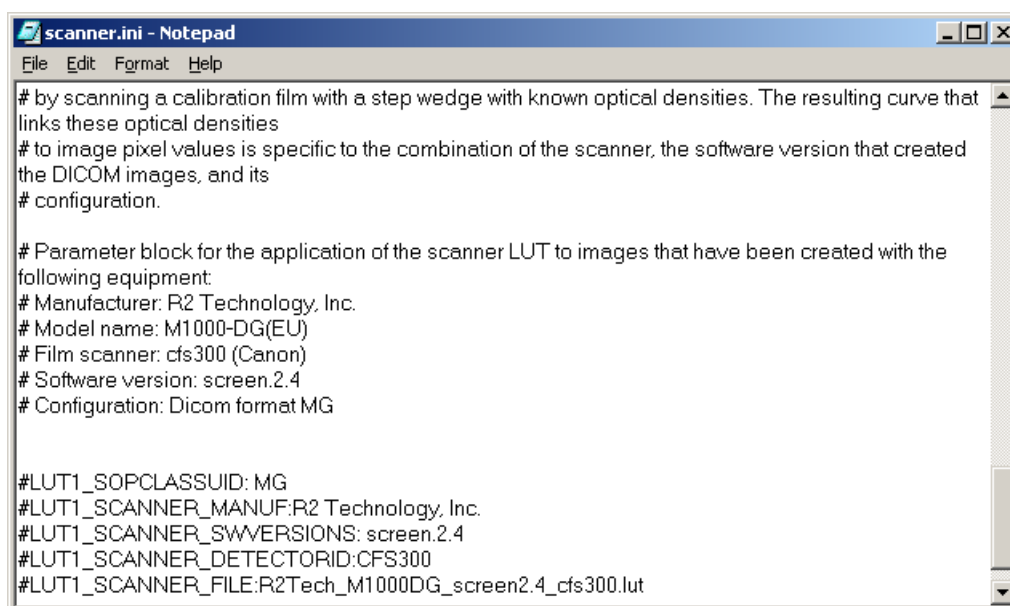


Fig. 12 scanner.ini

Several parameters can be configured in separate blocks (n is the number of the nth block), so multiple scanner LUTs can be applied.

- manufacturer(LUTn_SCANNER_MANUF:)
- file containing the LUT which is to be applied (LUTn_SCANNER_FILE:)
- DICOM format, e.g. MG (LUTn_SOPCLASSUID:)
- manufacturer's model name (LUTn_SCANNER_MODELNAME:)
- software versions (LUTn_SCANNER_SWVERSIONS:)
- detector ID of film scanner(LUTn_SCANNER_DETECTORID:)
- range of study dates (LUTn_SCANNER_STUDYDATE_START: and LUTn_SCANNER_STUDYDATE_END)

The first two parameters must be set, the others are optional. If the parameters given in a parameter block are found in the DICOM header, the LUT is applied for the corresponding image.

Example:

```
LUT1_SOPCLASSUID:MG
LUT1_SCANNER_MANUF:R2 Technology, Inc.
LUT1_SCANNER_MODELNAME:M1000-DG(EU)
```

```

LUT1_SCANNER_SWVERSIONS:screen.2.4
LUT1_SCANNER_DETECTORID:CFS300
LUT1_SCANNER_STUDYDATE_START:2002-06-02
LUT1_SCANNER_STUDYDATE_END:2002-07-30
LUT1_SCANNER_FILE:first.lut

LUT2_SCANNER_MANUF:Fischer Imaging
LUT2_SCANNER_FILE:second.lut

```

Read State Synchronization

These settings are necessary if the read state of the patients has to be synchronized with other workplaces.

NOTE

Read State Synchronization is a license protected feature.

Read state synchronization is configured in **C:\MBCSCR\SyncConfiguration.ini**.

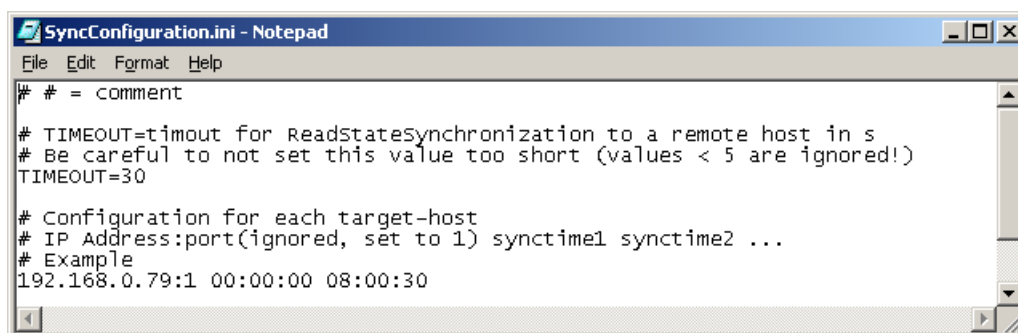


Fig. 13 SyncConfiguration.ini

The following parameters can be set in SyncConfiguration.ini:

- timeout in seconds (e.g. TIMEOUT=30)
- IP address and port of remote host (IPaddress:port)
- time of automatic synchronization (maximal 3 sync times can be entered)

Example:

```

TIMEOUT=30
186.168.0.86:1 00:00:00 08:00:30
182.148.0.88:1 00:01:00 09:00:30

```

The read state synchronization can be done manually by SCR Administration in the Settings Tab.

NOTE

Do not enter more than 3 *Synctime* values.

For *Synctime* entries use a timezone where there is less network traffic and database operations on the *syngo* MammoReport system, e. g. in the night or prior to the start of work in the morning.

NOTE

We recommend that you enter different synchronization times at all connected workplaces to avoid a network traffic overload.

System Settings

Inform customer about differences in Settings for **Closing A Case**.

Refer to "Operator Manual" (SPB7-420.620.20)

CAUTION!

Configure the settings only on an empty database and before sending any image to *syngo* MammoReport.

The settings cannot be changed afterwards.

Refer also to Customized System Settings, page 8-1

Increasing the mouse pointer size

To increase the size of the mouse pointer, perform the following steps:

1. Click the **Start** button and select **Settings/Control Panel**.
2. Double click on **Mouse** to open the Mouse Properties.
3. Select the Pointer tab to change the size of the mouse pointer.

Size of CAD Markers and Micro calcifications

To adjust the size of CAD markers and micro calcifications use the following entries in **C:\MBCSCR\lightbox.ini**:

- CAD_MARKERSIZE (size of CAD markers)
- CAD_PENSIZE (pensize of CAD markers)
- CAD_MICROCALCSIZE (line thickness of micro calcifications)

Example:

```
CAD_MARKERSIZE:28
CAD_PENSIZE:5
CAD_MICROCALCSIZE:3
```

Routing of modalities from syngo to SCR

By default only modalities MG, CR, SC, US, MR are routed from syngo to SCR. If this is to be changed, the following steps must be performed:

1. Press the Windows key.
2. Open Windows Explorer.
3. Double click on the SCRRouter_BE.pm file in C:\MBCSCR\syngo\config\dependent\.
4. Go to the end of the file.

Default modalities are defined in the following line:

```
CONFIG dynamic SCRRouter_BE Service_Object *
%LIGHTBOX%\Syngo\Back-
end\SCRRouter_BE%GMDLL%:_make_SCRRouter_BE ( )
"-M %MED_MOD_CHANNEL% -A MBC_SCR -F MG -F CR -F SC -F US
-D SCR_SYNGO -T 300"
```



Fig. 14 Configuration file for routing modalities

If the customer does not want display US images on HR monitors, delete the part “-F US” from the list:

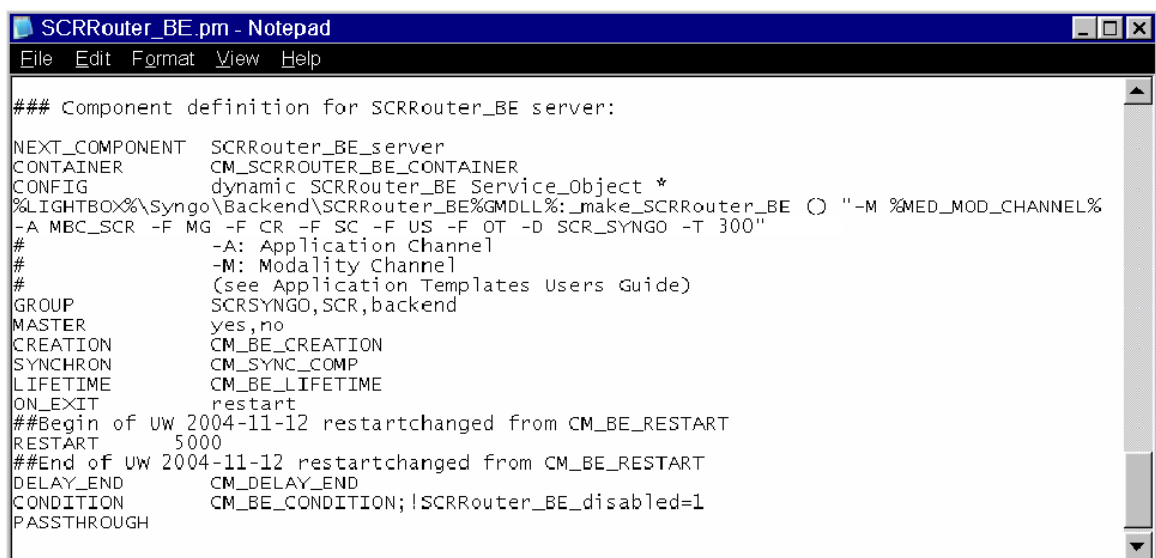


```

### Component definition for SCRRouter_BE server:
NEXT_COMPONENT SCRRouter_BE_server
CONTAINER CM_SCRROUTER_BE_CONTAINER
CONFIG dynamic SCRRouter_BE Service_Object *
%LIGHTBOX%\Syngo\Backend\SCRRouter_BE\GMDLL%:_make_SCRRouter_BE () "-M %MED_MOD_CHANNEL%
-A MBC_SCR -F MG -F CR -F SC -D SCR_SYNGO -T 300"
#
# -A: Application Channel
# -M: Modality Channel
# (see Application Templates Users Guide)
GROUP SCRSYNGO,SCR,backend
MASTER yes,no
CREATION CM_BE_CREATION
SYNCHRON CM_SYNC_COMP
LIFETIME CM_BE_LIFETIME
ON_EXIT restart
##Begin of Uw 2004-11-12 restartchanged from CM_BE_RESTART
RESTART 5000
##End of Uw 2004-11-12 restartchanged from CM_BE_RESTART
DELAY_END CM_DELAY_END
CONDITION CM_BE_CONDITION; !SCRRouter_BE_disabled=1
PASSTHROUGH
  
```

Fig. 15 Modality US deleted in configuration file

If you want TG 18 test images also be routed to SCR, add “-F OT”:



```

### Component definition for SCRRouter_BE server:
NEXT_COMPONENT SCRRouter_BE_server
CONTAINER CM_SCRROUTER_BE_CONTAINER
CONFIG dynamic SCRRouter_BE Service_Object *
%LIGHTBOX%\Syngo\Backend\SCRRouter_BE\GMDLL%:_make_SCRRouter_BE () "-M %MED_MOD_CHANNEL%
-A MBC_SCR -F MG -F CR -F SC -F US -F OT -D SCR_SYNGO -T 300"
#
# -A: Application Channel
# -M: Modality Channel
# (see Application Templates Users Guide)
GROUP SCRSYNGO,SCR,backend
MASTER yes,no
CREATION CM_BE_CREATION
SYNCHRON CM_SYNC_COMP
LIFETIME CM_BE_LIFETIME
ON_EXIT restart
##Begin of Uw 2004-11-12 restartchanged from CM_BE_RESTART
RESTART 5000
##End of Uw 2004-11-12 restartchanged from CM_BE_RESTART
DELAY_END CM_DELAY_END
CONDITION CM_BE_CONDITION; !SCRRouter_BE_disabled=1
PASSTHROUGH
  
```

Fig. 16 Modality OT added to configuration file

When all changes are completed, perform the following steps:

1. Save the file with changes and note the changes in the configuration data sheet (see Routed modalities from syngo to SCR, page 4-11).
2. Reboot the system.
3. Delete images that should not be routed from the database.
4. Send images that should not be routed / should be routed according to your modifications to check if changes are valid.

Requirements

System Requirements

The system requirements are described in the document Planning Guide SPB7-250.891.30..." and in chapter 2, "Systems overview".

General Requirements

- The PC must be operational and connected to the network.
- The *syngo* MammoReport dongle must be connected to the parallel port (D25 connector).
- All required data for configuration must be available, e.g. the checklists in chapter 4, "Configuring Data Sheets" must be fully completed.

CAUTION

Always check the exchange board. If garbage is found in exchange board, remove it! (Refer to syngo technical documentation.)

CAUTION

Always check the time when time-limited licenses expire.

Mouse Sensitivity

If an **optical mouse** is delivered, it is highly recommended to decrease the mouse sensitivity as follows:

1. Power-on the workstation and log in to syngo as administrator.
2. Open Start > Settings > Control Panel.
3. In the **Control Panel** window double click on icon **Mouse**.

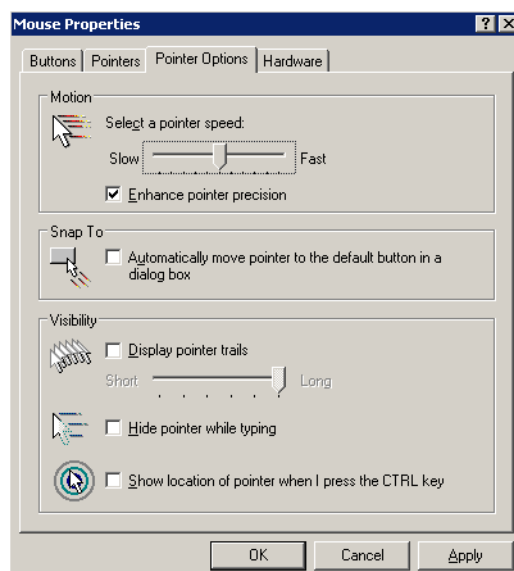


Fig. 1 Mouse Properties: Default

4. Move slider of **Select pointer speed** to the 3rd step from left as shown in the figure below (this is 2 steps slower than default).

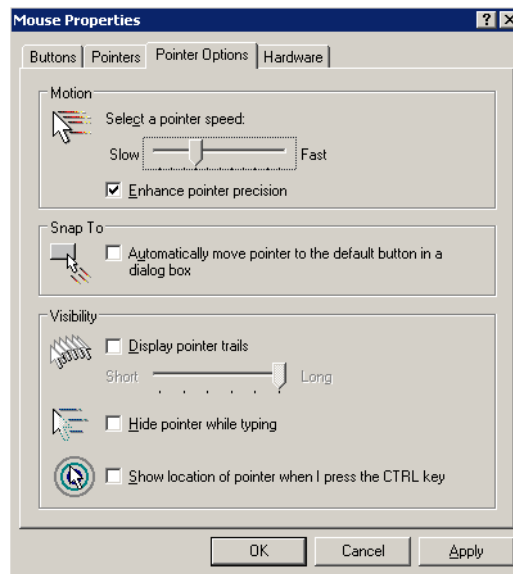


Fig. 2 Mouse Properties: Changed

5. Click **OK** for saving - and close all open windows.
6. **Restart** the system to activate the settings.

Settings

This section describes the syngo settings necessary for the startup of the SCR software. For further settings applied during installation refer to document SPB7-250.812.31... "Installation of Software".

1. Power-on the workstation.
2. Log in to syngo as administrator.
3. Select Options-> Service-> Local Service

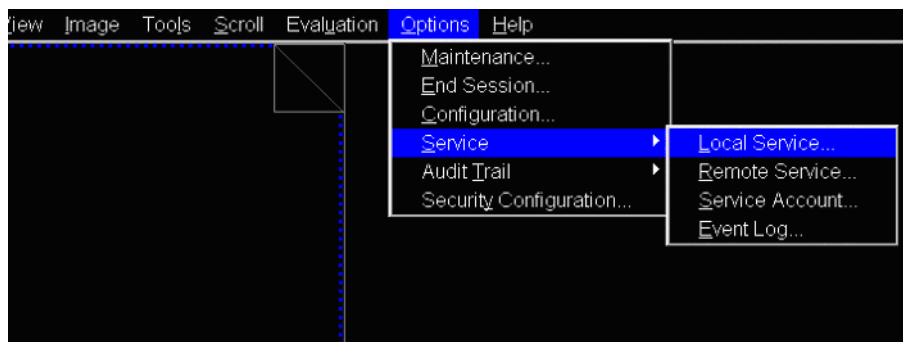


Fig. 3 Options menu

syngo Service Software Interface

1. The syngo Service Software Interface opens.

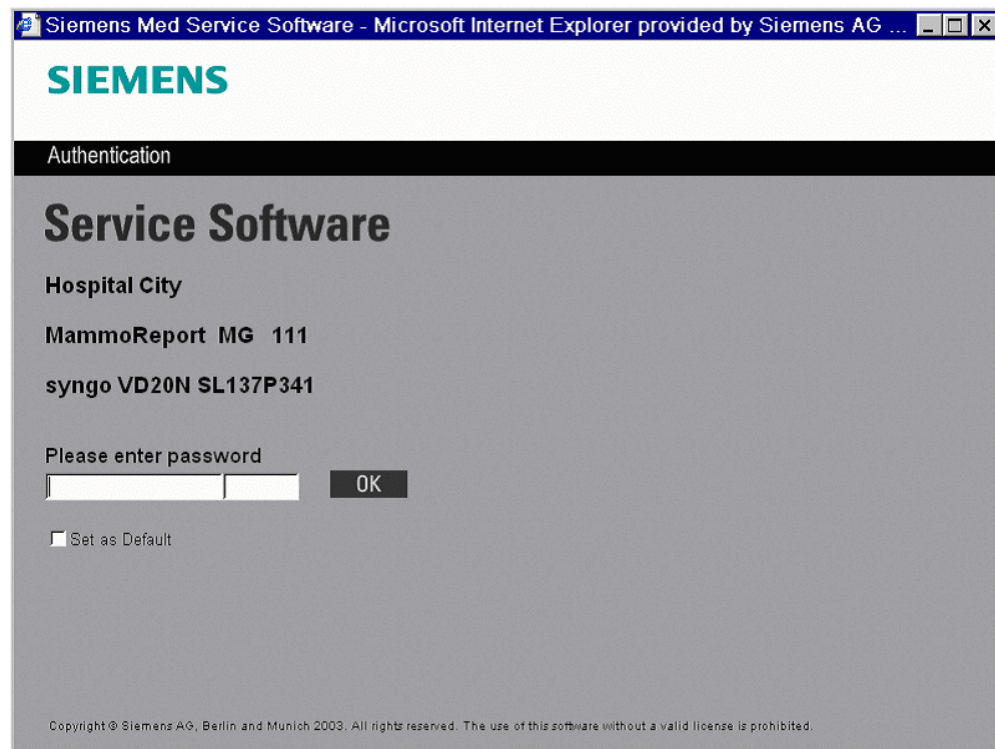


Fig. 4 syngo Service Software interface

2. In the Password field, enter 14 digits service key and 6 digits password. Click **OK**.

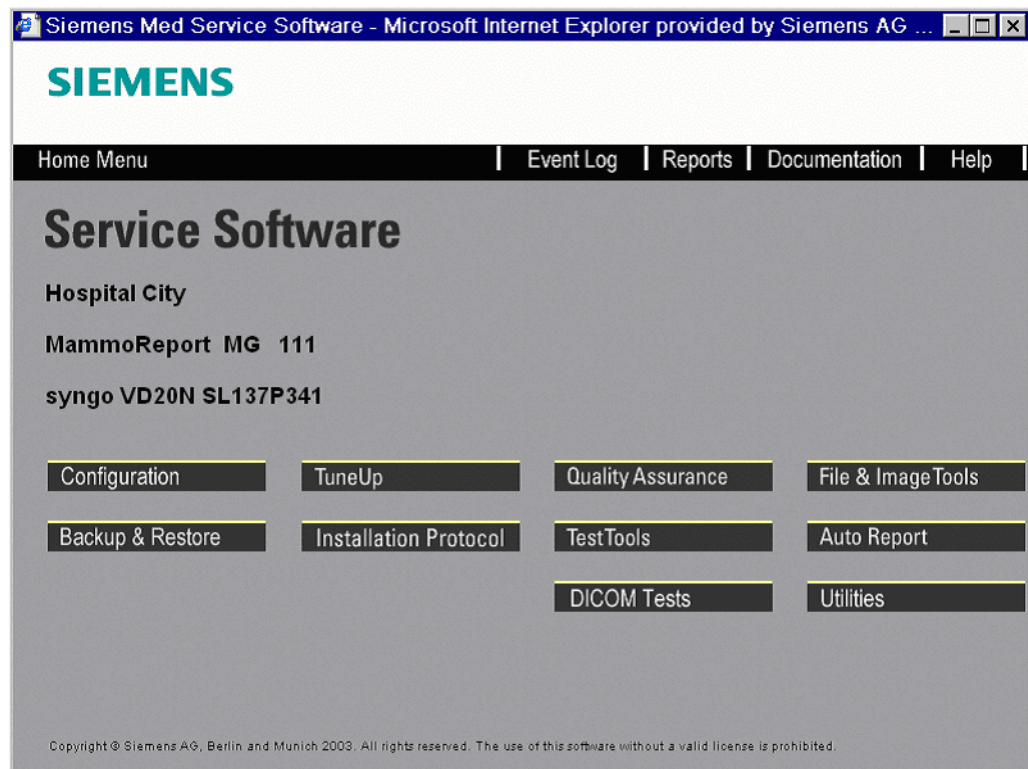
3. Click **Configuration**

Fig. 5 syngo Service Software menu

System Options

1. Select DICOM Print Devices and Paper Printer if required and click **Next**.

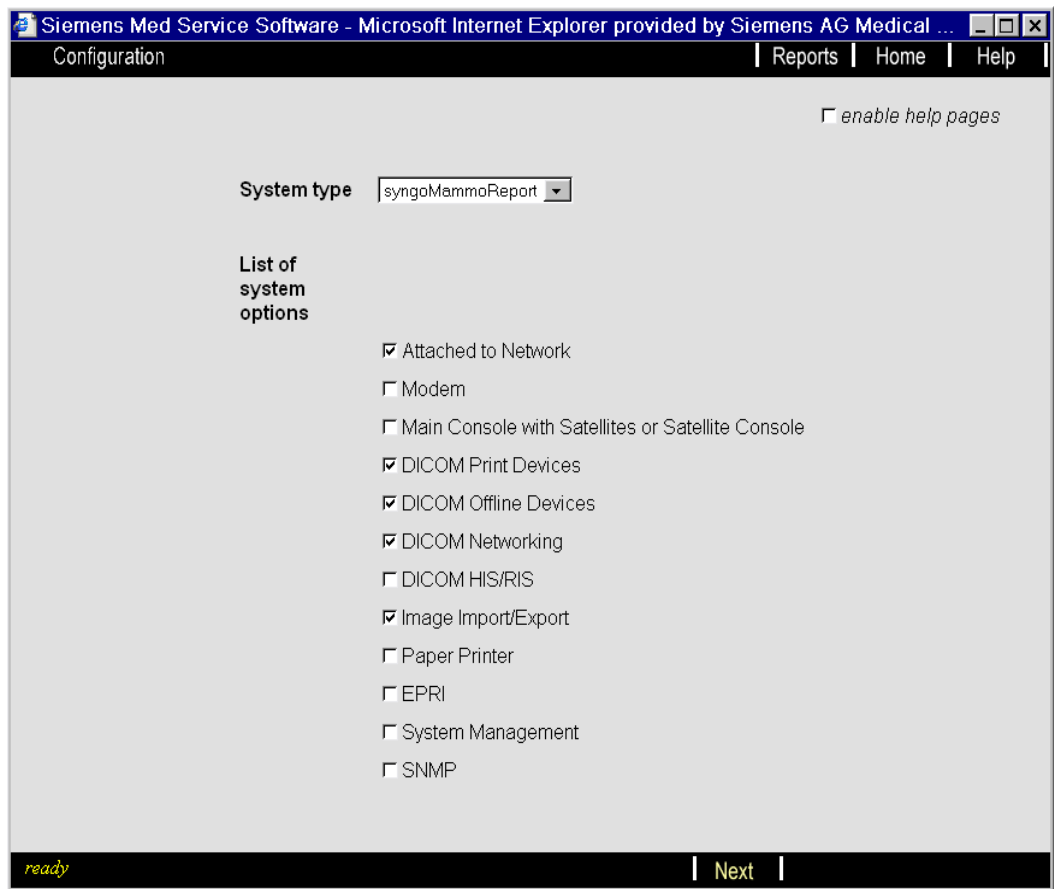


Fig. 6 System options

Local Host Settings

1. Select **Local Host > Site info.**

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Med...

Configuration | Reports | Home | Help

Local Host
 Site Info
 TCP/IP LAN
 Users
 MonitorType
 Security
 Settings
 Service
 Mail
 FTP
 AutoTransfers
 Eventlog
 Backup/Restore
 Licensing
 DICOM
 General
 Character Set
 Offline Devices
 Network Nodes
 Print Devices
 HC Overview
 LUT Files
 Import/Export
 Directories
 External Devices
 Paper Printer
 PS LUT Files
 Applications
 Pat. Registration
 Viewer
 CorRea
 MPPS
 Worklist Results

MG syngo syngo VD20N SL137P341

[mm/dd/yyyy] [hh:mm]

Software Installation 09/29/2004 07:48

handed over 12 / 29 / 2004

System

Material No 8646460

Rdiag Prefix MG

Serial No 0

Department Department

Station Name MBCPC

Customer and Address

Name Customer

Id Id

Hospital Hospital

Street Street

Street No StreetNo

Zip Code ZIP

Phone No Phone

City City

District District

Country Country

Administrator Administrator

ready | > | Save |

Fig. 7 Local Host > Site info settings

2. Change Station Name, change hand over date, fill in customer specific data in **Customer and Address** and click **Save**.

3. Select ">" and check if time zone is correct. If needed, change to appropriate time zone.

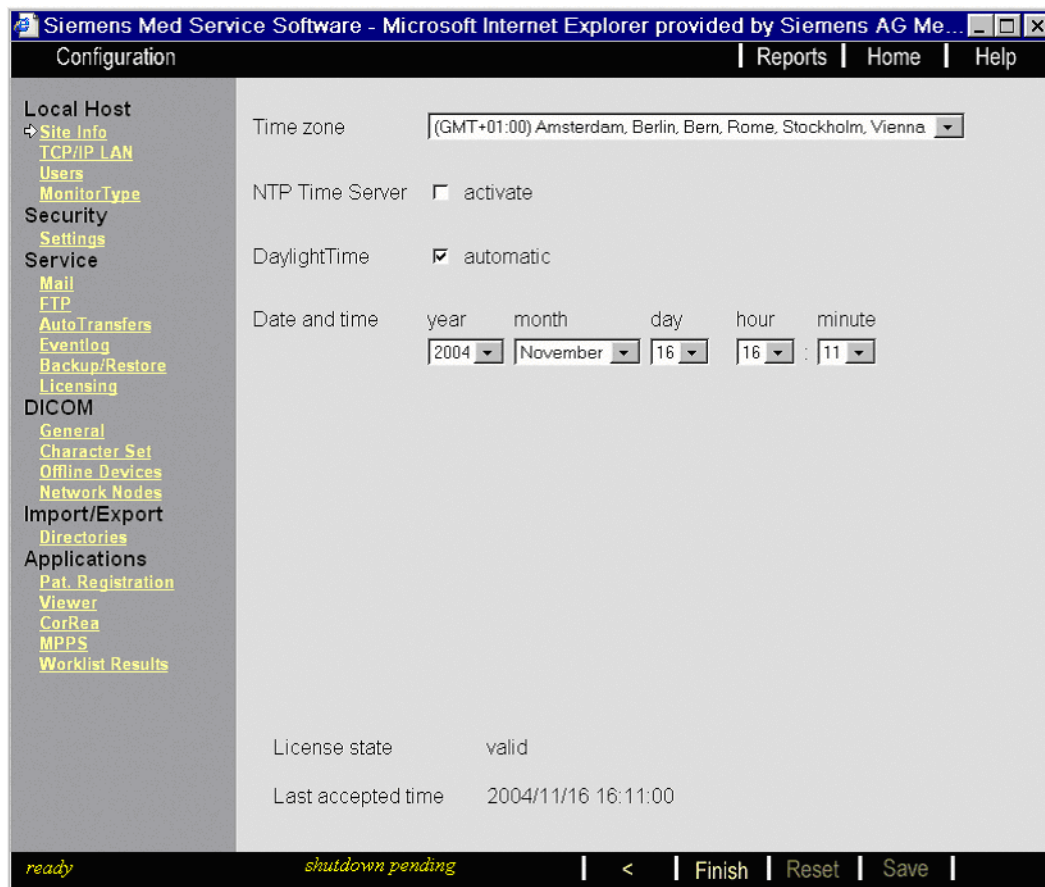


Fig. 8 Time and time zone settings

CAUTION!

DONT change the Date and TIME, only the Time Zone - NEVER change the time more than 24 hours back!

4. If Read State Synchronization is to be done (license protected feature), the NTP time server has to be activated. In this case, enter the IP Address of the time server and click **Next**.
5. Click **Save** after changes have been made.

TCP/IP LAN Settings

1. Select **Local Host > TCP/IP LAN**.

The screenshot displays the 'Configuration' window for 'Siemens Med Service Software'. The left sidebar contains a tree view with the following items: Local Host, Site Info, TCP/IP LAN (selected), Users, Monitor Type, Security, Settings, Service, Mail, FTP, Auto Transfers, Eventlog, Backup/Restore, Licensing, DICOM, General, Character Set, Offline Devices, Network Nodes, Import/Export, Directories, Applications, Pat. Registration, Viewer, CorRea, MPPS, and Worklist Results. The main area is titled 'Configuration' and contains several sections: Identification (Computer name: MBCPC), Adapter (select name: [00000000] Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Adapter, Copper RJ-45), IP Address (Obtain an IP address from DHCP server: [X], Specify an IP address: [X], IP address: 192.168.1.1, Subnet mask: 255.255.255.0, gateways: define new), WINS (Primary WINS server, Secondary WINS server, Enable DNS for Windows Resolution: [X], Enable LMHOSTS Lookup: [X]), and DNS (Domain, DNS service search order: define new). The bottom status bar shows 'ready' and 'shutdown pending'.

Fig. 9 TCP/IP LAN settings

2. Enter the computer name (station name) again.
3. Delete dummy IP address and enter the correct data for customer network.
4. Click **Save**.

General DICOM Settings

By default the SCU Print AETitle is set to the SCR AETitle *SCR_SYNGO*. If more than one *syngo* MammoReport workstation is installed, the SCR AETitles have to be different on each workstation to be unique in the network.

For this purpose follow instructions in chapter Changing the AET Title of SCR_SYNGO, page 6-22.

1. Select **DICOM > General** and enter the Station/Computer name as specified in Site Info and TCP/IP LAN.

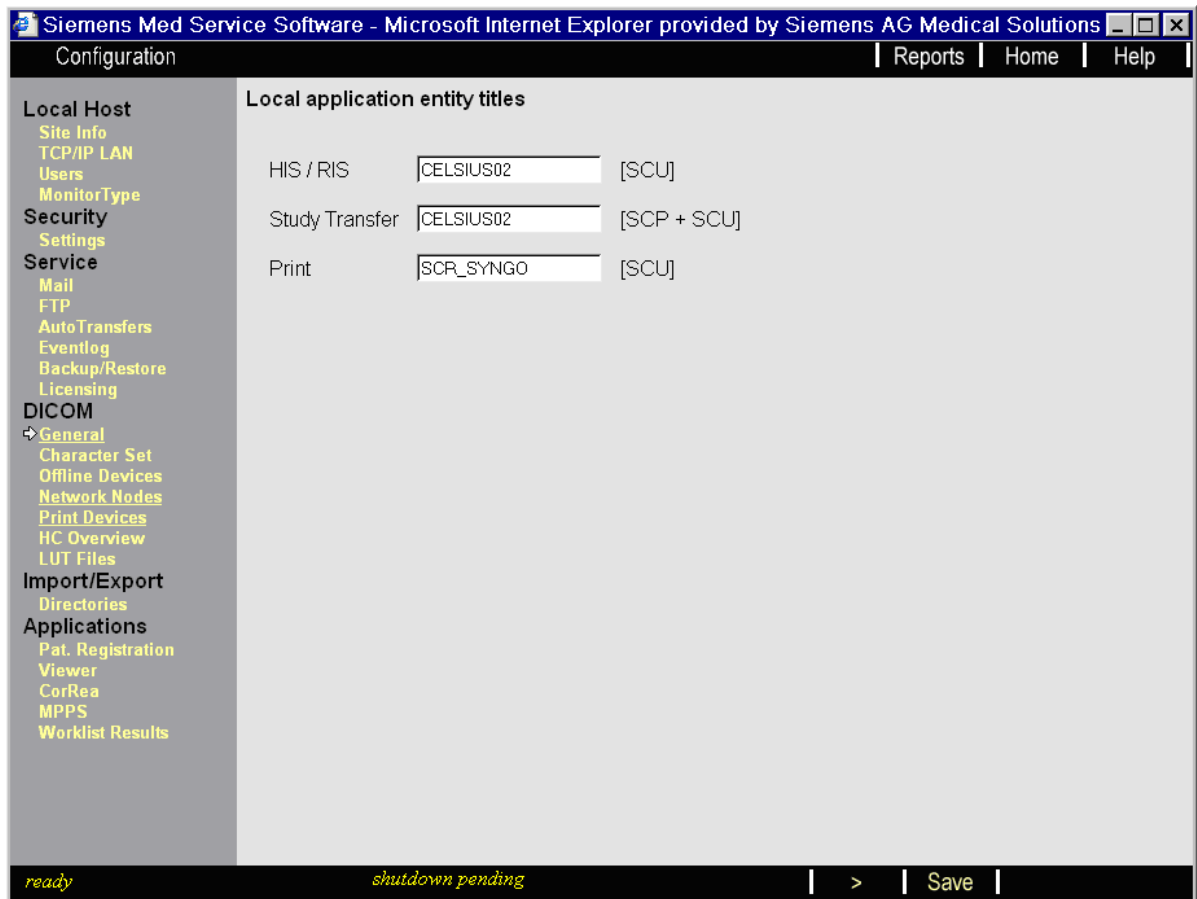


Fig. 10 General DICOM settings

2. Click **Save**.

3. Select **DICOM > Network Nodes** and select Define new in **Select Host**.

The screenshot shows the 'Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Medical Solutions' window. The 'Configuration' tab is active. On the left, a tree view shows 'DICOM > Network Nodes' selected. The main area is titled 'Host Properties' and contains the following fields:

- Select Host:** A dropdown menu with 'define new' selected.
- Host Name:** A text field containing 'mbcpc' and a 'Find' button.
- TCP/IP address:** Four text fields containing '192', '168', '1', and '1', followed by a 'Test' button.
- connected by:** Radio buttons for 'LAN' (selected) and 'RAS'.
- Phone No.:** A text field with a mask of 15 hash symbols.
- PPP Login Script:** A text field with a mask of 15 hash symbols.
- PPP Domain:** A text field with a mask of 15 hash symbols.
- PPP Account:** A text field with a mask of 15 hash symbols.
- PPP Password:** A text field with a mask of 15 dots.
- Verify PPP Password:** A text field with a mask of 15 dots.

At the bottom of the window, there is a status bar with 'ready' on the left, 'shutdown pending' in the center, and navigation buttons '>' and 'Save' on the right.

Fig. 11 DICOM network nodes settings: host properties

4. As host name enter the Computer Name (Station Name) and the IP address from TCP/IP LAN settings. Check connection by pressing Test.
5. Repeat the last two steps for all DICOM nodes (e.g. PACS) that are to be configured.

NOTE

If auditing shall be used for storage on network, define the destination computer as Network node!

6. Click **Save** and click ">".

7. Under HOST select the <station/computer name> and enter **SCR_SYNGO** in Edit Name. Edit AE Title <**STATION/COMPUTER NAME**>_SCR.

Fig. 12 DICOM network nodes settings: other properties (AE Title is MBCPC_SCR)

CAUTION

Don't enter any other name than SCR_SYNGO under "Edit Name"!

8. Enter port number 50104.
9. Select supported DICOM service *Storage* and click **Add**.
10. Select the AE Title <**STATION/COMPUTER NAME**> and click **Save**.
11. Now configure other DICOM nodes. Select respective node under HOST and edit suitable name and AE title, e.g. MITRA.

NOTE

The default Query / Retrieve node (e.g. PACS) will be set so that the first AET is defined with DICOM service *Query / Retrieve* supported.

12. Enter suitable port number, e.g. 104 for most PACS.
13. If configuring a PACS, select supported DICOM services *Storage*, *Query* and *Retrieve* and click **Add**.

14. Select the respective AE Title and click **Save**.

Fig. 13 DICOM network nodes settings: PACS configuration

CAUTION

Be careful when configuring target nodes for storage commitment. In the DICOM conformance statement of the node, verify that the storage commitment is supported before configuring it.

15. Repeat the last four steps for the remaining DICOM nodes.

NOTE

If no CAD server is configured, CAD SR cannot be received by SCR.

Read State Synchronization

Defining Host:

If Read Synchronization between *syngo* MammoReport workstations is to be established, the **other workstation(s)** need to be **defined as hosts**. Example: the first workstation that shall be synchronized is named CELSIUS01.

1. Enter e.g. CELSIUS01 as **Host Name**, with the corresponding IP address as shown in the following figure.

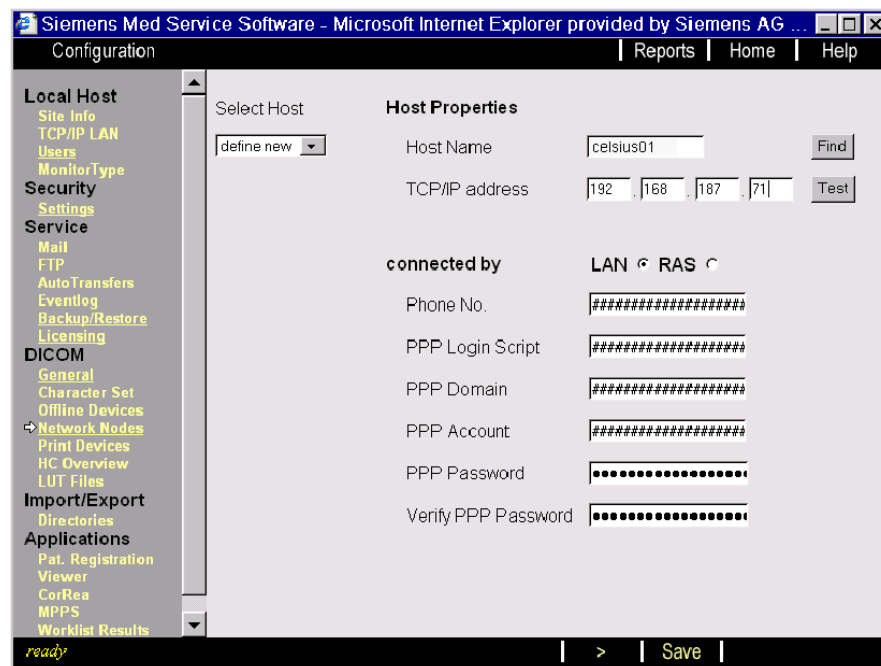


Fig. 14 DICOM network nodes settings

2. Click **Save**.
3. If a message confirming a successful save appears, click **OK**.
4. Then click **Next**.

In addition **two special ports (4745 for sending / 4746 for receiving)** and the read status of patients need to be opened. For this purpose **define two AETs** with these ports as network nodes. The logical names and AETs should be defined according to the following convention.

Defining Receiver

1. Select **Host** of **other workstation**, e.g. celsius01 as configured in the previous steps.
2. Define new **Logical Name** and **AE Title** "CELSIUS01_REC", Port Number must be **4746**.
3. Select DICOM service **Storage**.

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Medic...

Configuration | Reports | Home | Help

Local Host

- Site Info
- TCP/IP LAN
- Users
- MonitorType

Security

- Settings

Service

- Mail
- FTP
- AutoTransfers
- Eventlog
- Backup/Restore
- Licensing

DICOM

- General
- Character Set
- Offline Devices
- Network Nodes
- Print Devices
- HC Overview
- LUT Files

Import/Export

- Directories

Applications

- Pat. Registration
- Viewer
- CorRea
- MPPS
- Worklist Results

General Node Properties

Logical Name: [define new] edit Name: CELSIUS01_REC

Host: celsius01

Application Entity Properties

AE Title: [define new] edit AE Title: CELSIUS01_REC Add

Port Number: 4746 Verification

Supported DICOM services

☒ Storage

Transfer Syntax: [Implicit Little Endian] [Explicit Little Endian] [Explicit Big Endian]

Compression: [JPEG Lossy] [JPEG Lossless]

Default Node: [not default node]

Preference Node: ☐

Archive Node: ☐

Default Archive: ☐

Graphics in pixel data: ☐

uses Storage Commitment (SC)

select SC node: [not available]

select SC AET: [not available]

SC Result in same association: ☐

SC result time out: [h] [min]

☐ Storage Commitment

☐ Query

☐ Retrieve

ready | < | Finish | Save |

Fig. 15 Defining Network Node Receiver

4. Click **Add** and **Save**.
5. Accept the message displayed with **OK**.

Defining Sender

1. Select Host **celsius01** again.
2. Define new **Logical Name** and **AE Title** "CELSIUS01_SEND", Port Number must be **4745**.
3. Select DICOM Service **Storage**.

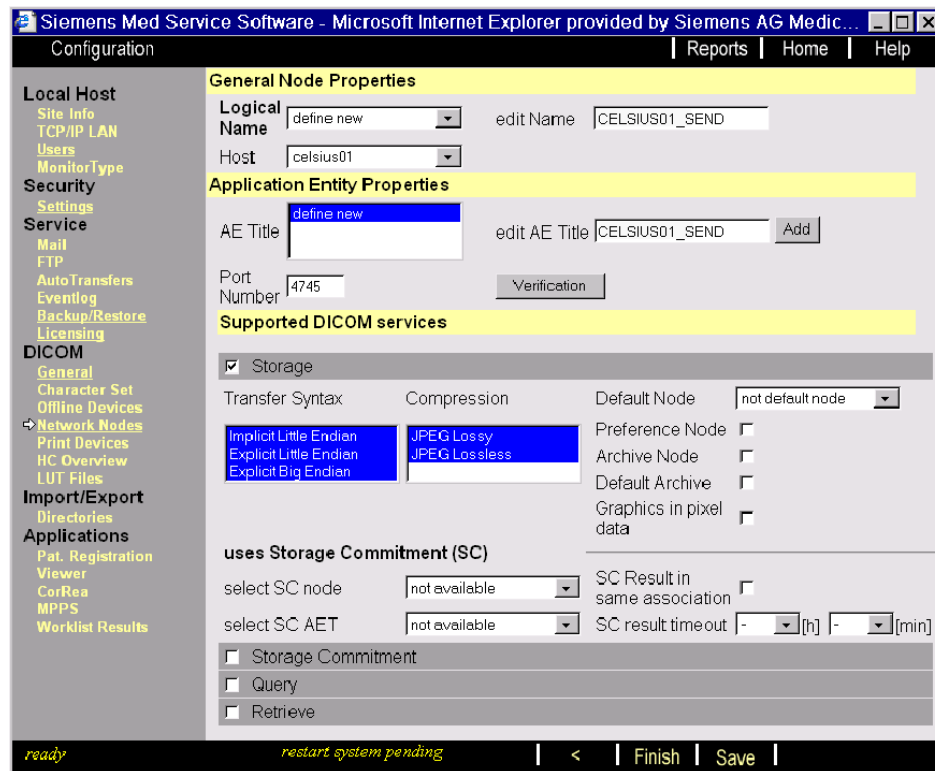


Fig. 16 Defining Network Node Sender

4. Click **Add** and **Save**.
5. Accept the message displayed with **OK**.

Defining a Second Workstation for Read State Synchronization

If a second syngo MammoReport system is to be synchronized, define this workstation as host as well and open the two ports 4745 and 4746 by defining two network nodes on this host. Repeat steps 1-10 with that workstation name, e.g. CELSIUS03 instead of CELSIUS01.

DICOM Printing



Be aware that only released settings for Cameras should be used.

1. Now configure DICOM Printer if required. The following images show the configuration for various printers and dot matrices:

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Medical Solutions

Configuration | Reports | Home | Help

Local Host

- Site Info
- TCP/IP LAN
- Users
- MonitorType
- Security
- Settings
- Service
- Mail
- FTP
- AutoTransfers
- Eventlog
- Backup/Restore
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- Import/Export
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- Applications
- Pat. Registration
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- CorRea
- MPPS
- Worklist Results

Select HC device

DP7000HR

HC Device

DP7000HR Default Camera ☒

General Settings

Type: DICOM printer

Class: fujitdypix7000HiRes

DICOM Node: log_dp7000

Location:

Comment: No Comment

Filming Properties

Hold printed filmjobs: 10 min density: 20 [0.1]

Pixel Size [1/1000mm]: 50 x 50

Film Sheet Formats Portrait: Inch8x10

Film Sheet Formats Landscape: Inch8x10

Medium type: blue film

Film destination: processor

color appearance: Grayscale 12 bit

background: black

Transformation: no magnification

Film Sheet

Format	Number of Pixel [col.s, rows]	
Inch8x10	3907 4819	Del
Inch8x10	4931 3795	Del

ready

< | Finish | Save | Delete

Fig. 17 Fuji DP 7000 8 x 10 in

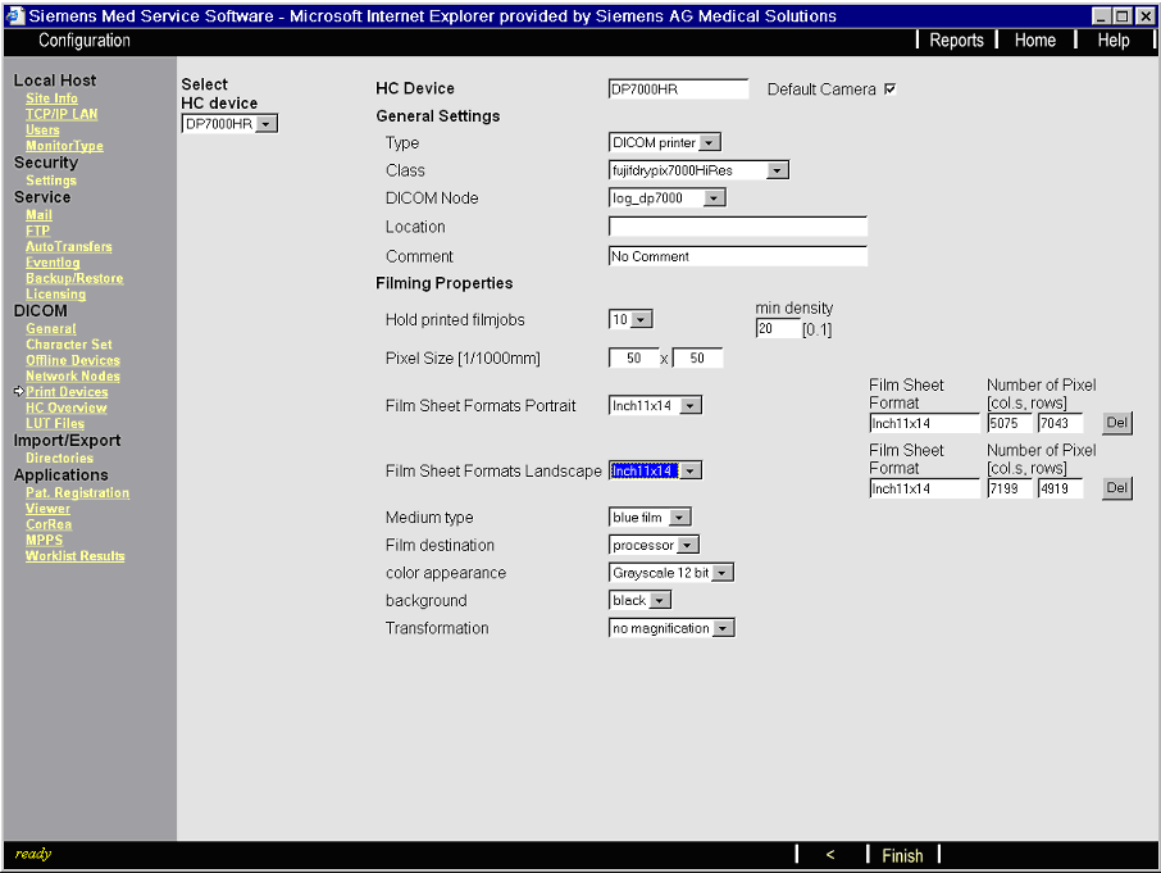


Fig. 18 Fuji DP 7000 11 x 14 in

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Medical Solutions

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Local Host
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[TCP/IP LAN](#)
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Select HC device
FMDPL

HC Device
FMDPL Default Camera ☐

General Settings
Type: DICOM printer
Class: fujimdpHires
DICOM Node: log_dpl
Location:
Comment: No Comment

Filming Properties
Hold printed filmjobs: 10 min density: 20 [0.1]
Pixel Size [1/1000mm]: 50 x 50
Film Sheet Formats Portrait: Inch8x10
Film Sheet Formats Landscape: Inch8x10
Medium type: blue film
Film destination: processor
color appearance: Grayscale 12 bit
background: black
Transformation: no magnification

Film Sheet Format	Number of Pixel [col.s, rows]
Inch8x10	3904 4819 Del
Inch8x10	4928 3795 Del

Fig. 19 Fuji FM-DPL 8 x 10 in.

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[TCP/IP LAN](#)
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Select HC device
FMDPL

HC Device
FMDPL Default Camera ☐

General Settings
Type: DICOM printer
Class: fujimdpHires
DICOM Node: log_dpl
Location:
Comment: No Comment

Filming Properties
Hold printed filmjobs: 10 min density: 20 [0.1]
Pixel Size [1/1000mm]: 50 x 50
Film Sheet Formats Portrait: Inch11x14
Film Sheet Formats Landscape: Inch11x14
Medium type: blue film
Film destination: processor
color appearance: Grayscale 12 bit
background: black
Transformation: no magnification

Film Sheet Format	Number of Pixel [col.s, rows]
Inch11x14	5000 7000 Del
Inch11x14	7120 4880 Del

ready | < | Finish |

Fig. 20 Fuji FM-DPL 11 x 14 in.

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Medical Solutions

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[TCP/IP LAN](#)
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Select
HC device
DV8900

HC Device DV8900 Default Camera ☐

General Settings
Type DICOM printer
Class kodak8900HiRes_smallB
DICOM Node Log_DV8900
Location
Comment No Comment

Filming Properties
Hold printed filmjobs 10 min density 20 [0.1]
Pixel Size [1/1000mm] 39.08 x 39.08
Film Sheet Formats Portrait Inch8x10
Film Sheet Formats Landscape Inch8x10
Medium type blue film
Film destination processor
color appearance Grayscale 12 bit
background black
Transformation no magnification

Film Sheet Format	Number of Pixel [col.s, rows]
Inch8x10	5056 6368 Del
Inch8x10	6368 5056 Del

ready | < | Finish |

Fig. 21 Kodak Dry View 8900 8 x 10 in.

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Medical Solutions

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Select
HC device
DV8900

HC Device DV8900 Default Camera ☐

General Settings
Type DICOM printer
Class kodak8900HiRes_smallB
DICOM Node Log_DV8900
Location
Comment No Comment

Filming Properties
Hold printed filmjobs 10 min density 20 [0.1]
Pixel Size [1/1000mm] 39.08 x 39.08
Film Sheet Formats Portrait Inch10x12
Film Sheet Formats Landscape Inch10x12
Medium type blue film
Film destination processor
color appearance Grayscale 12 bit
background black
Transformation no magnification

Film Sheet Format	Number of Pixel [col.s, rows]
Inch10x12	6368 7656 Del
Inch10x12	7656 6368 Del

ready | < | Finish |

Fig. 22 Kodak Dry View 8900 10 x 12 in.



If the save button is not available in Local Service when modifying an existing hardcopy device, remove that device from the list of configured devices and re-configure it.

Always check the exchange board. If garbage is found in exchange board, remove it!

Active Auditing

1. If auditing is to be active, select Auditing in Security Settings:

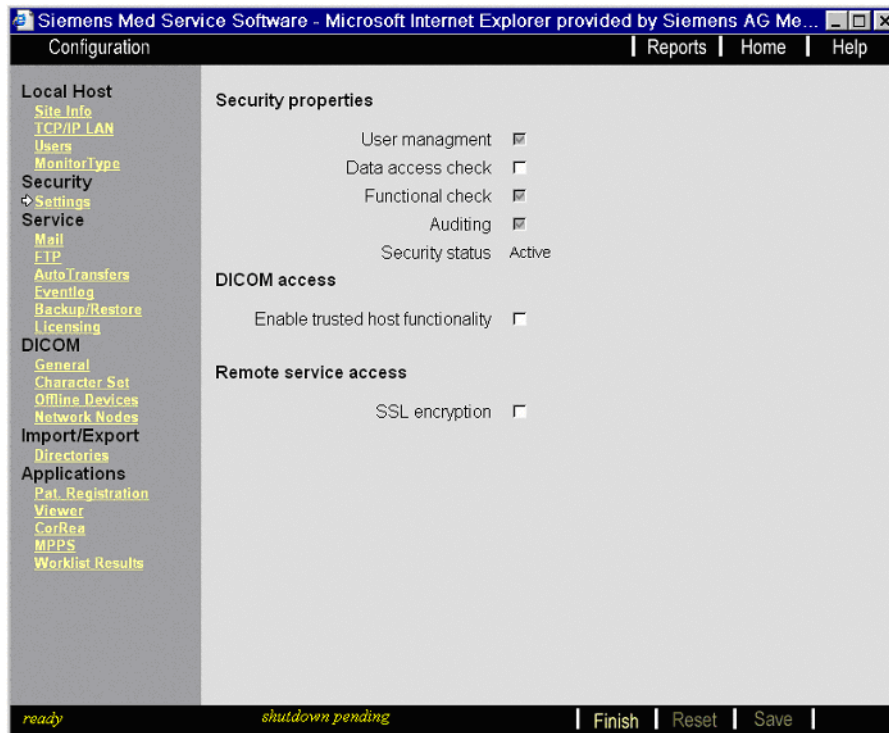


Fig. 24 Security settings

2. If auditing is to be active, call **Options > Configuration > Audit Trail** and set up the auditing either for storage
 - a) on network (computer where the audit trail will be stored must be defined in DICOM Nodes) or
 - b) on CD-R (from time to time the system may require a new CD-R in drive D:\ to save the audit trail).

For Audit Trail Settings see Operator Manual SPB7-420.620.20....

CAUTION

Archiving the audit trail conflicts with Archiving & Networking / Image Manager Server.

When trying to archive the audit trail onto MOD or CD-R, Image Manager and Archiving & Networking server are shut down and restarted automatically. If any jobs are still pending, they have to be restarted manually.

CAUTION

The following actions are not reported to audit trail log:

- Change of time or NTP Time Server
- Changing host of an AET node
- Changing a DICOM Service of an AET Node
- Changing the settings of Print Devices
- Changing Offline Devices
- Changing Directories
- Changing configuration of Audit Trail options

Finishing configuration and rebooting system

1. In the Service Software window click Home and accept appearing message to reboot the system by clicking OK.
2. Let the system reboot itself.
3. Log in to syngo as administrator.

Changing the AET Title of SCR_SYNGO

NOTICE

This is only necessary if more than one *syngo* MammoReport system is installed in the same network, because the AETitle should be unique.

If the AE Title must be changed for Print in Fig. 10, perform the following steps:

1. Under HOST select the <Station/Computer name> in Fig. 12
2. Delete entry for "edit AET", enter new AET.
3. Enter port 50104 and select "Storage".
4. Click "Add".
5. Select AET title that you just entered and click "Save" in the action bar.
6. Change to DICOM General page.
7. Enter new AET in Print field of Fig. 10
8. Click "Save" in the action bar.
9. Finish configuration and reboot the system.
10. In the SCR settings, change AET of SCR-system to new AET.

Offline Devices

⚠ CAUTION

When configuring a new Offline Device, make sure that the offline path is **NOT** a write-protected path.

Licensing

⚠ CAUTION

Always check the time when time-limited licenses expire.

System Management

⚠ CAUTION

Only System management MNP-Version VF10D should be used for *syngo* MammoReport with syngo VD20N!

NOTE

If a patch for System Management is available, install it.

Changing the Keyboard Language

To change the keyboard language follow the steps below:

1. As user "Administrator" select Windows **Start Menu** ⇒ **Settings** ⇒ **Control Panel**.
2. In Control Panel double click **Regional and Language** icon.

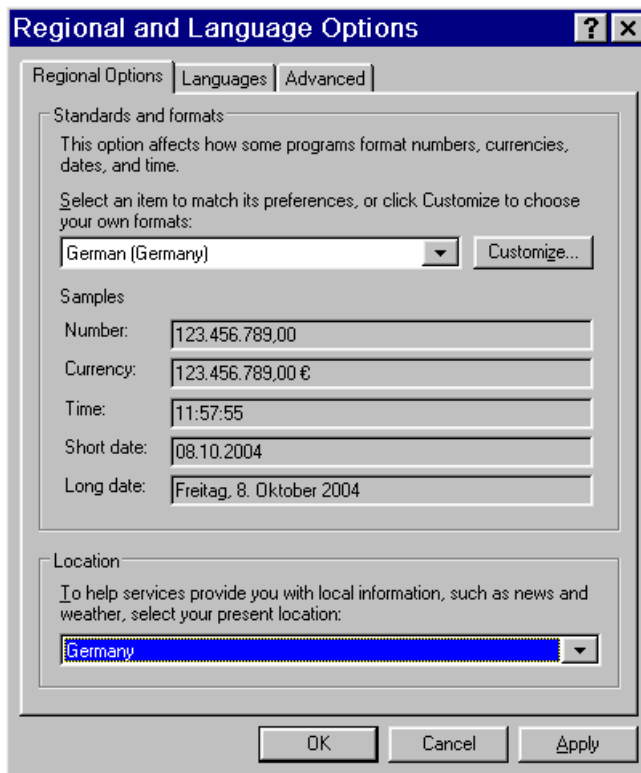


Fig. 25 Regional and Language options

3. Choose **format** and **location**. Click **Apply**.

- Click on **Languages** tab. Click **Details** button.

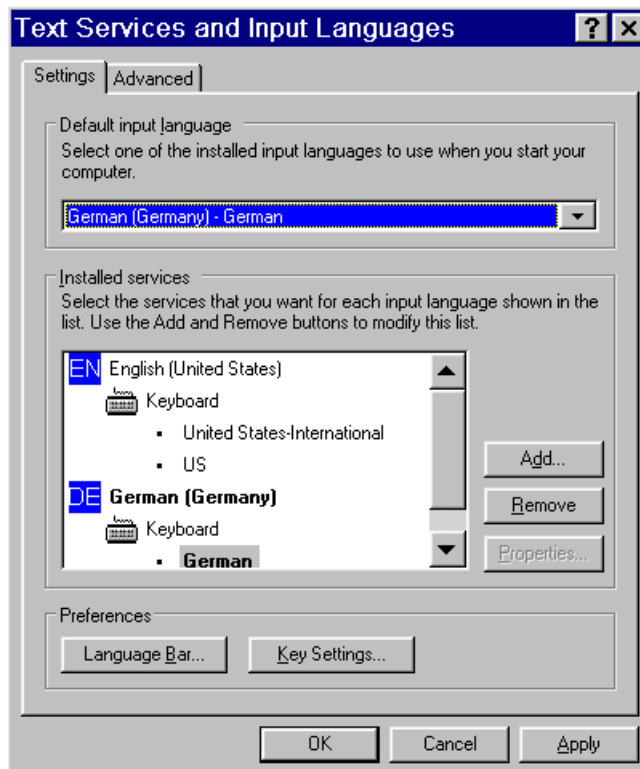


Fig. 26 Input language and Keyboard setting

- Select **Default input language** and **Installed services**. Click **OK**.
- Restart the system.

CAUTION

After changing the language a reboot is required. After this reboot you can use syngo for a few seconds without logging in before the login screen is displayed. Wait for login screen to come up!

Calibration of monitors

Having configured the syngo settings, the high resolution monitors need to be calibrated. This procedure is described in the document SPB7-250.820.30... "Calibration of Monitors - System manual".

Remote Service

To access the system from a remote computer, Remote Access must be configured via **Options > Remote Service**. To do this see chapter 10, "Siemens Remote Service".

For further information refer to document TD00.000.880.16 "Online Help - Remote Service".

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General

In the SCR Service user interface four tabs are available:

- Licensing (entering software licenses)
- DICOM (configuring DICOM entities)
- Service Patients (viewing Service Patients and deleting patients from the MBC-SCR database)
- Info (displays information about software, e.g. version number)

To access the SCR Service user interface follow the steps below:

1. Log on to syngo.
2. Select **Options > SCR Service** in patient browser menu.
3. Enter password for service user.

DICOM settings

The configuration of DICOM Settings is part of the configuration of the *syngo* MammoReport system at customer site.

NOTE

Only service users have access to DICOM settings.

When entering DICOM AET titles always use capital letters.

The DICOM tab in *syngo* MammoReport comprises two user interfaces for the DICOM settings:

- **Setup Tab**

The Setup tab provides entries to configure various DICOM entities like the *syngo* MammoReport workstation (SCR- system) itself and the connectivity to a DICOM Printer.

- **Printer Tab**

The Printer tab is used to configure various printer types with values for exactly one medium and matrix size.

The Setup Tab

The **DICOM Setup** interface comprises three group boxes to configure the settings for various entities:

The screenshot shows the 'Service' window with the 'DICOM' tab selected. The 'DICOM Setup' sub-tab is active. The 'This Workstation' section contains fields for 'SCR-System' (SCR_SYNGO), 'Printer' (1), 'Syngo DICOM port' (5104), and 'Syngo AET' (CELSIUS01). The 'DICOM Entities' section displays a table with one entity: 'SCR-System' with AET 'SCR_SYNGO', IP Address '192.168.0.215', and Port '50104'. The 'DICOM Setup' section has 'Entity Type' set to 'SCR-System' (3), and fields for 'AET', 'IP Address', and 'Port'. The 'Printer Setup' section lists various printer models like 'Kodak / DryView 8610' and 'AGFA / DryStar 4500M 8x10'. The bottom status bar shows the date '2004-12-15 19:24:36', 'User Name: service', and buttons for 'Help' and 'Exit'.

Fig. 1 The DICOM Setup tab.

1. **This Workstation** - displays all connected entities of this workstation (*syngo* MammoReport system and Printer).
2. **DICOM Entities** - displays in alphabetical order the connected entity types and provides tools for editing and deleting entities, and sending an echo to an entity.
3. **DICOM Setup** - contains entries to configure an entity type by AET, IP Address and Port. When adding a DICOM printer, all fields have to be filled out before a new entity can be saved and added to the list on the left hand side.

The Printer tab

The **Printer** tab contains three group boxes:

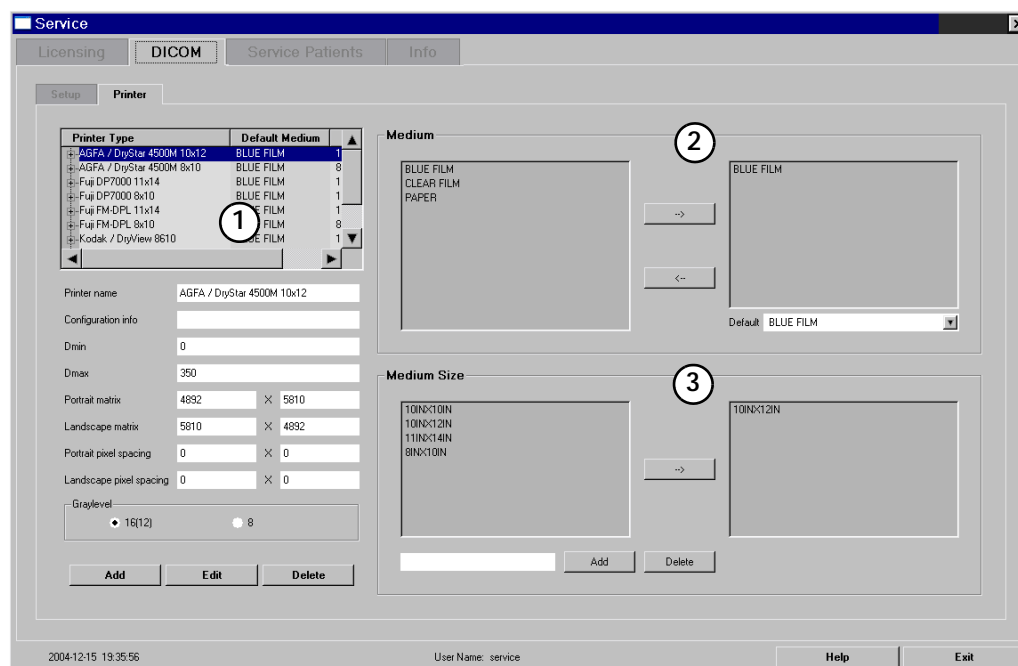


Fig. 2 The DICOM Printer tab

NOTE

To edit printer settings refer to **Editing a printer, page 7-9.**

1. The **Printer** type box displays printers with Printer type, Default Medium and Medium Size.
Below the list, text fields display information about a selected printer from the list. These entries can be used to edit existing values and to add a new type to the list above.
The tool bar below contains three buttons to add, edit or delete a printer type.
2. The **Medium** box displays two lists.
The list to the left list contains available media such as Paper, Blue Film or Clear Film. The list to the right is used to assign default media to the selected printer. Use the arrow buttons to assign (or remove) a medium to (from) a selected printer.
3. The **Medium Size** box displays two lists.
The list to the left contains available medium sizes. The list to the right is used to assign exactly one medium size for the selected printer. Use the arrow button to assign a medium size to a selected printer. An existing value will always be replaced.
There are two buttons to add new medium sizes and to delete medium sizes.

Configuring DICOM Entities (*syngo* MammoReport system)

Configuring *syngo* MammoReport

NOTE

The first AET to be added is the *syngo* MammoReport itself.

To add *syngo* MammoReport to the Entity Type list follow the steps below:

1. On **Setup** tab, DICOM Entities group box, select entity type SCR system in the Entity Type list.
2. Click **Edit** button.
3. In DICOM Setup group box, select the **SCR system** radio button.
4. Fill out the text fields for **IP Address** as done in the *syngo* Service Software settings, step 4. Do not change other entries (except if the AET has been changed on *syngo* side, see Changing the AET Title of SCR_SYNGO, page 6-22).
5. Click **Save** button.

Result: The entity is listed in **DICOM Entities** group, sorted by type.

NOTICE

If changes are made to the SCR system, the changes will become valid after reboot.

Configuring a DICOM Printer

After initial installation the Printer Setup list in the Setup Tab contains various printers. Each printer type has exactly one medium size, i.e the correct matrix size can be specified for each medium size. Refer also to Tab. 1.

NOTE

The configuration of the DICOM Printer has to be linear density.

To add a DICOM Printer to the Entity Type list, follow the steps below:

1. On **Setup** tab, DICOM Setup group box, select radio button for **Entity Type** Printer.
2. Select one or more printers from the Printer Setup list using the right arrow button.
3. Select one of them as default printer.
4. Fill out the text fields for **AET**, **IP Address** and **Port**.
5. When all parameters are set, click the **Save** button.

Result: The printer is listed in the **DICOM Entities** group, sorted by type.

- When a radiologist selects the DICOM Print button in Reviewing, the configured DICOM Printer name is fully displayed in the DICOM print window and can be selected.

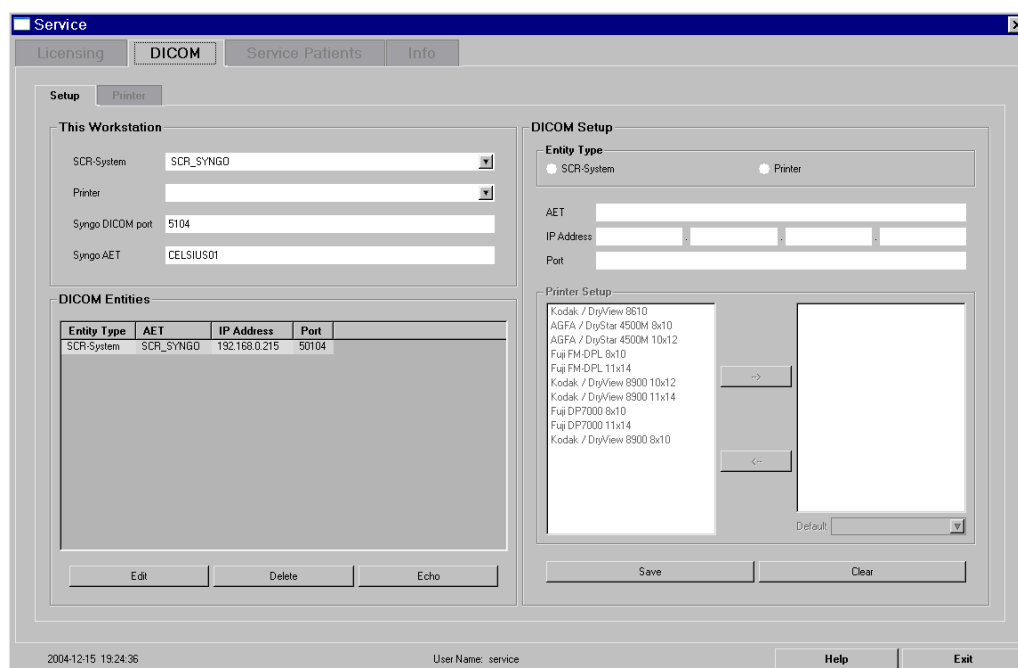


Fig. 3 Add entity type printer.

Checking the Setup Configuration

NOTE

It is absolutely necessary to run a test after configuration.

To run a test after the configuration follow the steps below:

- Select an **Entity Type** in the **DICOM Entities** group.
- Click the **Echo** button. The following message is displayed.



Fig. 4 .Echo successful message: SCR system/Printer

- Repeat steps 1 and 2 for all entity types in the list.

NOTE

If echo is unsuccessful the possible causes could be:

- network settings do not work correctly.
- permission is denied.
- syngo has not been rebooted after the configuration completed in Settings, page 6-2

Repeat configuration procedure or reboot syngo.

Editing entities

To edit an entity follow the steps below:

1. On **Setup** tab, select an entity in the **DICOM Entities** list.
2. Click the **Edit** button.
3. Make your changes in the group box **DICOM Setup**.
4. Click the **Save** button.

NOTE

The **Clear** button clears all text fields for AET, IP Address and Port.

Deleting entities

To delete an entity follow the steps below:

1. On **Setup** tab, select an entity in the **DICOM Entities** list.
2. Click the **Delete** button.
Result: A message box displays.

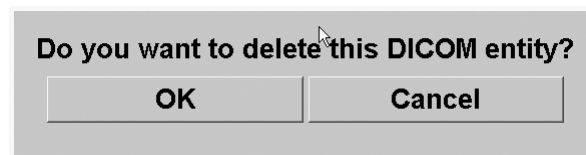


Fig. 5 Delete Message for DICOM entities like Printers

3. Click **OK**.
Result: The entity is removed from the DICOM Entities list.

NOTE

The **SCR Workstation** cannot be deleted. At least one *syngo* MammoReport system must be registered.

Modifying Printer

Adding Printer Type

To add a new printer to the Printer list follow the steps below:

1. On **Printer** tab, enter printer name in the **Printer name** text field.
2. Enter **Configuration Info** (optional).
3. Enter the printer's **Dmax** value (refer to Tab. 1).
4. Enter desired size (in pixels) in **Portrait matrix** text fields. Width x Height. Refer to Tab. 1.
5. Enter desired size (in pixels) in **Landscape matrix** text fields. Width x Height. Refer to Tab. 1.
6. Select **Graylevel** radio button: 16 or 8. Refer to Tab. 1.
7. Click the **Add** button.
Result: The printer name is displayed in the Printer Type list.
8. Select a Medium from the Medium list.
9. Click right arrow button to assign the medium.
Result: The selected Medium displays in the list to the right.
10. Repeat steps 2 and 3 to assign more mediums to the selected printer.
11. Select one Medium Size from the list.
12. Click right arrow button to assign the medium size. Only one medium size is possible.
Result: The medium size is displayed in the list to the right as default medium size.

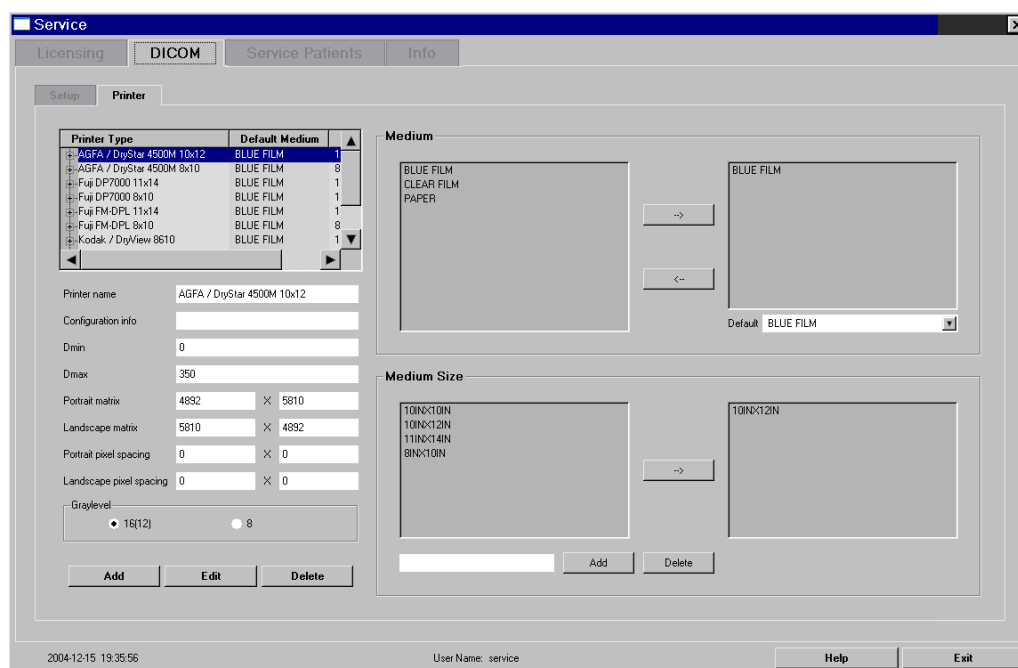


Fig. 6 Printer settings

NOTE

To use another medium size, add a new printer type, and name it according to medium size.

Default Values						
Printer	Dmin	Dmax	Matrix	Portrait	Landscape	Graylevel
AGFA Drystar 4500M	0	350	8 x10	3828 x 4958	4958 x 3828	16
AGFA Drystar 4500M	0	350	10 x12	4892 x 5810	5810 x 4892	16
Fuji DP 7000	0	300	8 x10	3907 x 4819	4931 x 3795	16
Fuji DP 7000	0	300	11 x14	5075 x 7043	7199 x 4919	16
Fuji FM-DPL(50mu)	0	300	8 x10	3904 x 4819	4929 x 3795	16
Fuji FM-DPL(50mu)	0	300	11 x14	5000 x7000	7120 x 4880	16
Kodak DryView 8610	0	350	10 x12	5024 x 6200	6200 x 5024	16
Kodak DryView 8900	0	350	8 x10	5056 x 6368	6368 x 5056	16
Kodak DryView 8900	0	350	10 x12	6368 x 7656	7656 x 6368	16
Kodak DryView 8900	0	350	11 x14	7028 x 8976	8976 x 7028	16

Tab. 1 Printer settings

NOTE

For all available printers (Kodak, Fuji and Agfa), the “BLUE FILM” medium is selected.

NOTE

If the error message “Print failed: ImageBox_N_Set FAILED” is displayed, you may select only one monitor for printing.

NOTE

Only a Fuji Printer with Print Server can handle subnets. If a Fuji Printer without Print server is used, no subnet may be present.

Viewing Printer Settings

To view printer medium settings, follow the steps below:

1. In **Printer** tab select the printer from the Printer list.
2. Click the plus sign in front of the printer name.
Result: The Printer Type folder expands.

Printer Type	Default Medium	
AGFA / DryStar 4500M 10x12	BLUE FILM	1 ▲
└ Film		
└ BLUE FILM		
AGFA / DryStar 4500M 8x10	BLUE FILM	8
└ Film		
└ BLUE FILM		
Fuji DP7000 11x14	BLUE FILM	1 ▼

Fig. 7 DICOM printer medium settings.

Editing a printer

A selected printer is highlighted in **Printer Type** list, and its corresponding values are displayed in the text fields below the list, see Fig. 6.

To edit a printer follow the steps below:

1. In **Printer** tab, select a printer in the **Printer Type** list.
2. Make your changes in the text fields (e.g. change the Dmax value) and /or in the medium and Medium Size list.
3. Click **Edit** button to assign new settings to the selected printer.

NOTE

Changes to medium and medium size are immediately applied to the selected printer.

Deleting a printer

To delete a printer, follow the steps below:

1. In **Printer** tab, select a printer in the **Printer Type** list.
2. Click **Delete** button.
Result: A message displays.

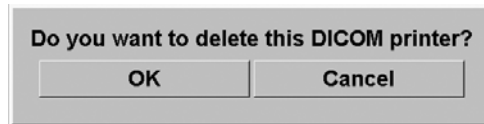


Fig. 8 Message box

3. Click **OK**.
Result: The printer will be removed from the Printer Type list.
4. If you try to delete a type from the printer type list that is configured as DICOM printer, the following message box displays.

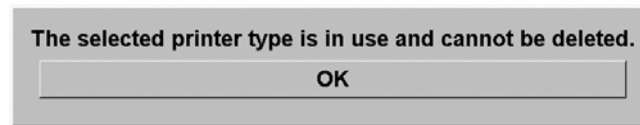


Fig. 9 Message box if Printer Type is used as DICOM printer

Adding/Deleting Medium Sizes

Below the Medium size box a text field is used to fill in new medium sizes. The Add and Delete button are located beside it.

To add a new medium size or to delete a medium size, follow the steps below:

1. Fill in size values into the text field. Click **Add** button.
Result: The new medium size is displayed in the **Medium Size** box.
2. Select medium size in the **Medium Size** box.
Click the **Delete** button.
Result: The medium size is removed from the **Medium Size** box.

Licensing

The Softcopy Reading System (SCR) software is protected by a dongle connected to the parallel port of the PC. In order to use the SCR software, at least the main license is needed:

- Main license (Feature: **MBC-SCR-1**)
- CAD license (Feature: **MBC-CAD**, optional)
- BI-RADS license (Feature: **MBC-BIRADS**, optional)
- Read State Synchronization license (Feature: **MBC-SYNC**, optional)
- RIS license (Feature: **MBC-RIS**, optional)

To enter a license follow the steps below:

1. Select **Licensing** tab. The Licensing Window is displayed.
2. Enter feature, e.g. MBC-SCR-1 into the field **Feature**.
3. Enter 3.0 into the field **Generation**.
4. Enter license number into the field **License**.
5. Click **Check**. If the entered values are correct, a new entry appears in the licenses list.

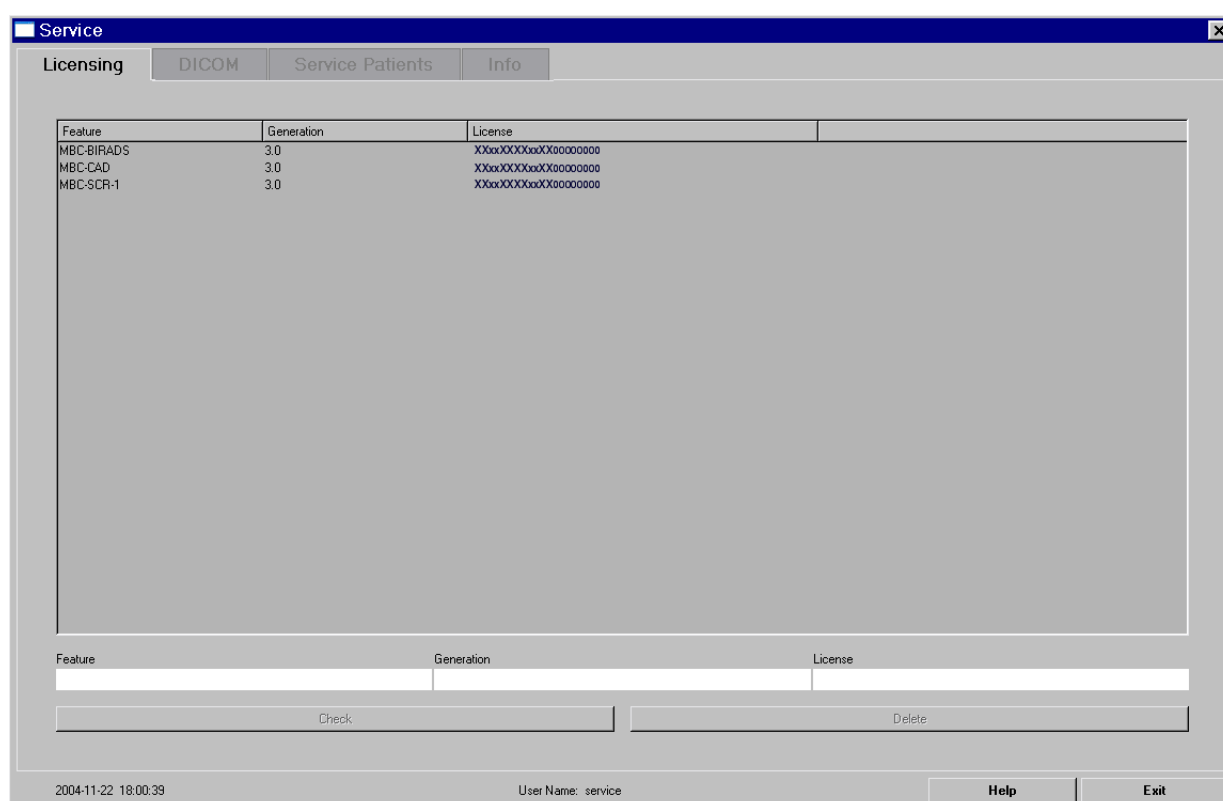


Fig. 10 User Interface for the License Management

6. Exit SCR Service.

To delete a license follow the steps below:

1. Select **Licensing** tab. The Licensing Window is displayed.
2. Select a feature, e.g. MBC-CAD from the field **Feature**.
3. Press button **Delete** - the license disappears.
4. Exit SCR Service.

Service Patients

In the Service Patients user interface two functionalities can be accessed:

- High-resolution viewing of service patients (needed for calibration of monitors, described in document Quality Control Manual SPB7-420.621.20.01 ...)
- Deletion of patients from the MBC-SCR database (needed for database maintenance, described in document Maintenance Plan SPB7-250.664.30...)

NOTE

Deletion of a patient from the MBC database is only possible if the patient has status "Read" on SCR side as well as on syngo side.

On selecting the **Service Patients** Tab, the service patient list is displayed.

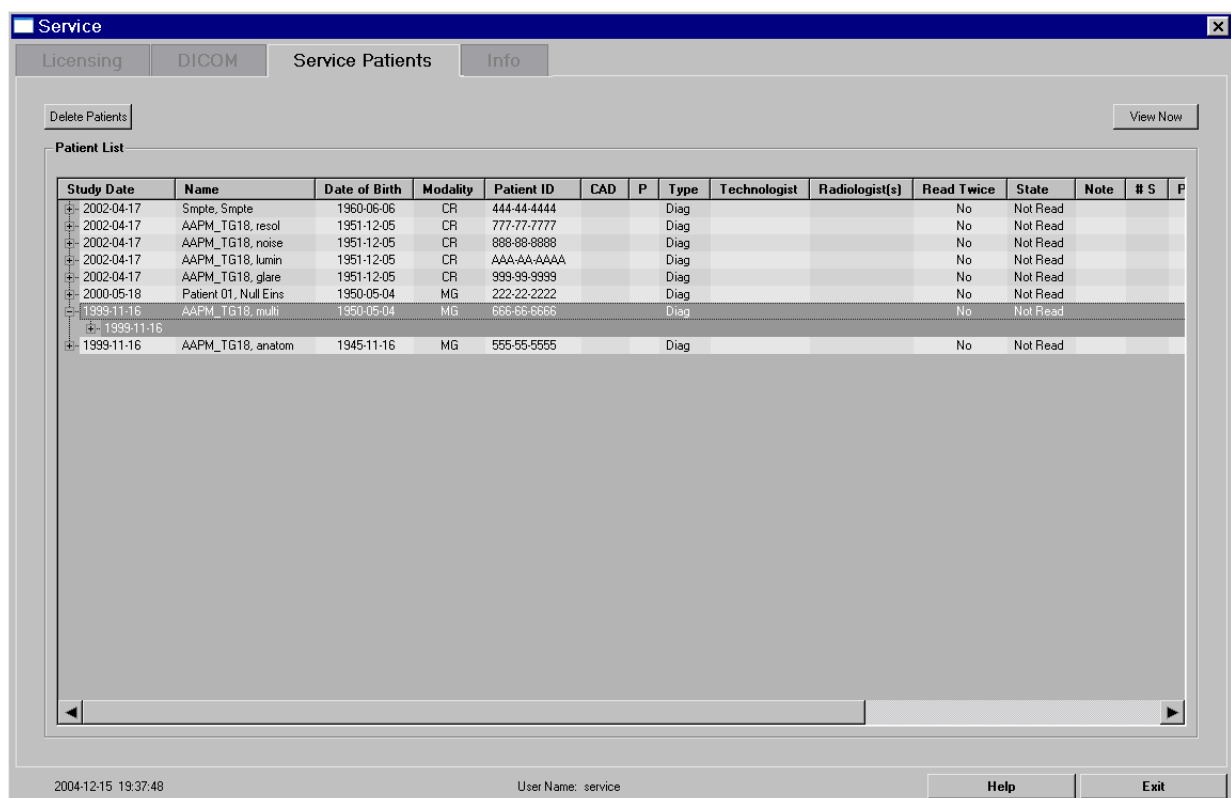


Fig. 11 Service patients user interface

A patient can be viewed as follows:

1. Select patient in the list by clicking the left mouse button.
2. Click **View Now** (the patient is displayed in the High-Resolution Viewer).

NOTE

If the Original TG18 Test Images are to be used, they can be downloaded from the Internet. The modality type "OT" has to be configured to forward them to SCR_SYNGO (see Routing of modalities from syngo to SCR, page 5-15).

On clicking **Delete Patients** the corresponding dialog will be opened. The patients to be deleted can be selected in the list.

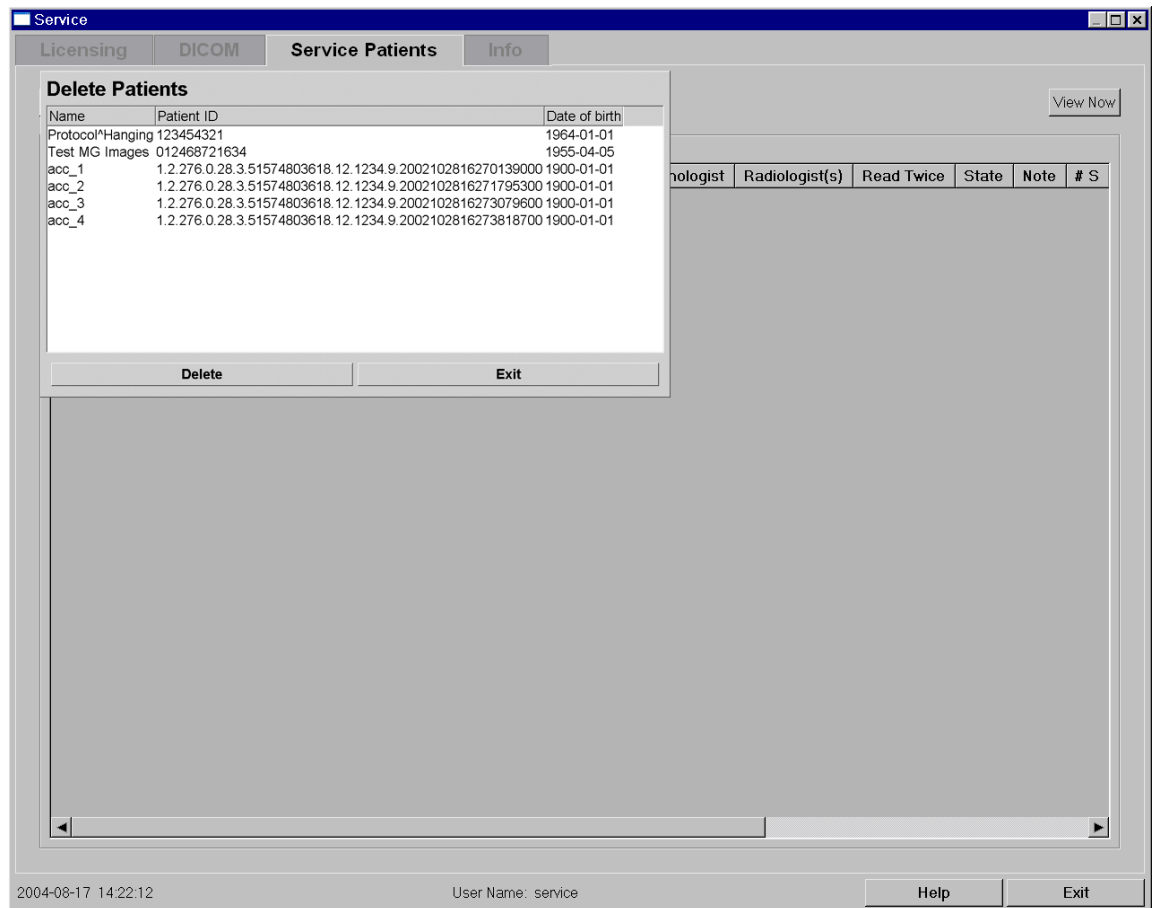


Fig. 12 Delete Patients user interface

NOTE

After deleting patients the system must be restarted!

Info

On selecting the Info tab, software version and copyright info are displayed.



Fig. 13 Info window

General

Before using the *syngo* MammoReport system for the first time it is recommended to customize the system settings together with the responsible administrator or radiologist. For further information regarding system settings refer to document SPB7-420.620.20 ... “Operator Manual”.

System Settings

The Administration module (accessible via Options > SCR Administration) contains a **Settings** tab to configure a special environment for all users working with the *syngo* MammoReport system. The settings are performed for the Administration and Reviewing mode for all radiologists.

- 1. Click the **Settings** tab to open the interface.

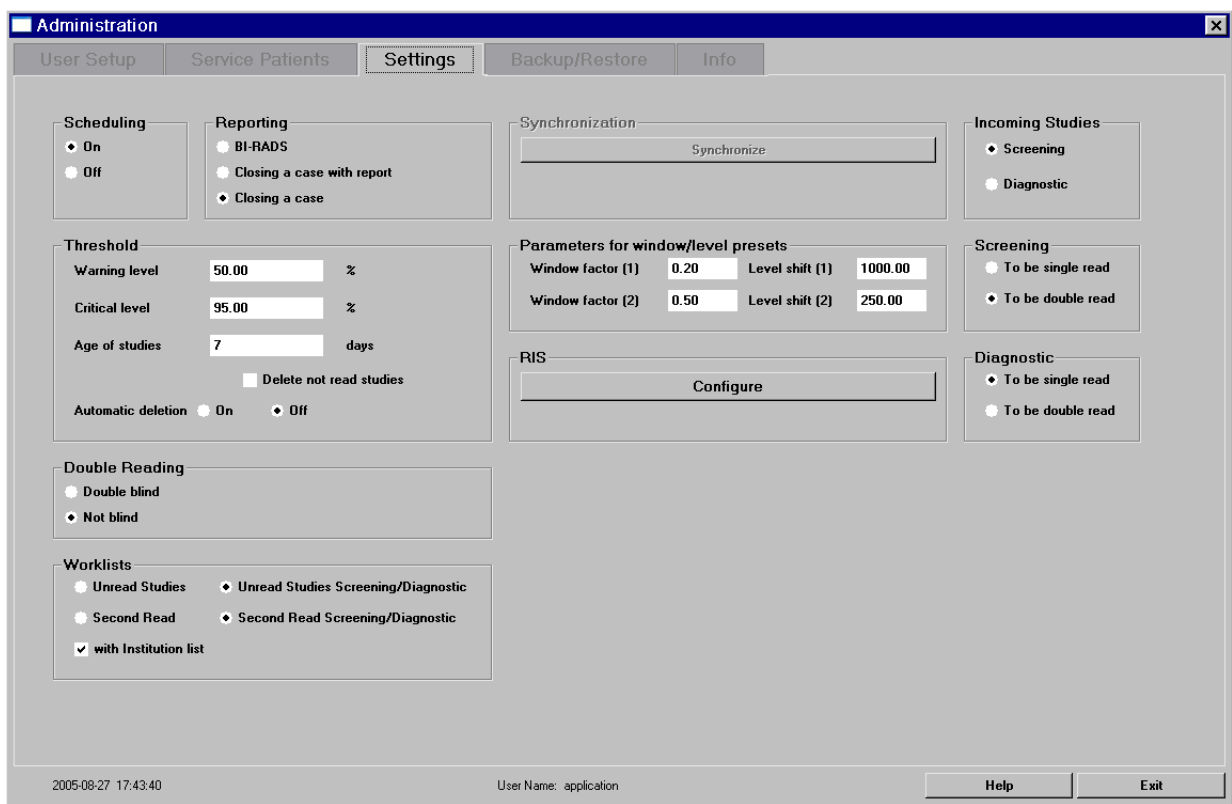


Fig. 1 Setting Tab in Administration

- 2. Select the radio buttons to configure the system to the customer’s needs.

NOTICE

Only an Administrator can change the configuration for scheduling, report and watermark levels in general.

WARNING

The Report configuration can only be changed by generating a new database!

NOTICE

If report settings “BI-RADS” or “Closing a Case with reporting” are activated a paper printer driver needs to be installed so that the reports can be printed. For that purpose reboot the system while pressing the shift key and install the printer driver as OS user “administrator”.

Settings	Selection	Description	Module
Scheduling	On	Direct access to cases in the MammoBrowser	Mammo-Browser (patient list)
	Off	Direct access to Mammo-Browser and planning of sessions	
Report	BI-RADS reporting	HTML reports are automatically generated containing all diagnostic data	High Resolution Viewer (last step of workflow)
	Closing a Case with reporting		
	Closing a Case	No final report is generated	
Warning: The Report configuration can only be changed by generating a new database.			
Incoming Studies (Type settings)	Screening*	All incoming cases will be of type Screening	MammoBrowser (patient list)
	Diagnostic Mode*	All incoming cases will be of type Diagnostic	
Screening / Diagnostic	To be double read*	All incoming cases will be of type Double Read	
Screening / Diagnostic	To be single read*	All incoming cases will be of type Single Read	
* These settings can be changed individually by radiologists in the MammoBrowser - except when Read State Synchronization is active.			
Threshold	Warning Level	Avoiding storage space overflow	Mammo-Browser and High Resolution Viewer
	Critical Level		
	Age of studies		
	Delete not read studies		

Tab. 1 Customized System Settings

Automatic Deletion	On	Images are deleted following certain criteria. No warning message is displayed as long as the Automatic Deletion is continuously working.	Mammo-Browser and High Resolution Viewer
	Off	No automatic deletion. Warning Level and Critical Level messages are displayed.	
Double Reading	Double blind	Only the 1st Reader is notified about the existence of his (her) markings and can view them	MammoBrowser
	Not blind	All users are notified about the existence of markings and can view them.	
Worklists	Unread Studies	Activates button in syngo PatientBrowser: Unread studies are loaded into Reviewing	High Resolution Viewer
	Second Read	Activates button in syngo PatientBrowser: Studies to be read from second radiologist are loaded into Reviewing.	
	Unread Studies Screening / Diagnostic	Activates two buttons in syngo PatientBrowser: Unread studies are loaded into Reviewing	High Resolution Viewer
	Second Read Screening / Diagnostic	Activates two buttons in syngo PatientBrowser: Studies to be read from second radiologist are loaded into Reviewing.	
	with Institution list	Activates dialog to select institution with special work lists	MammoBrowser (patient list)
Synchronize		Manual synchronization of read states with other workstation(s)	MammoBrowser
RIS		Accession number synchronization with RIS workstation	MammoBrowser (patient list)

Tab. 1 Customized System Settings

Predefined Window/Level Values	Window Factor(1) Level Shift (1)	Parameters for Window/Level settings can be predefined.	High Resolution Viewer
	Window Factor(2) Level Shift (2)		

Tab. 1 Customized System Settings

Automatic Deletion

A service user can set the *syngo* MammoReport system configuration to automatically delete images by default in order to avoid storage space overflow. This mode matches the task of the Case Administrator user, but detects the system storage space and deletes images automatically following certain criteria.

- **Automatic Deletion Off**

- When the *syngo* MammoReport system detects the Warning Level, a warning message is displayed.
- When the *syngo* MammoReport system detects the Critical Level, a warning message is displayed, and the system does not accept DICOM images, until the Case Administrator frees up sufficient disk space by deleting images.
See also Preventing Hard Disk Overflow, page 8-6.

- **Automatic Deletion On**

- A site can set the Warning Level for storage space as low as possible => 1%. Then the only criteria for deletion will be the age of the study.
- When the *syngo* MammoReport system detects the Warning Level, images are deleted following certain criteria. The system displays **no warning messages** as long as the Automatic Deletion is continuously working.
- When the *syngo* MammoReport system detects the Warning or Critical Level, the corresponding warning messages are displayed.

Criteria for Automatic Deletion

The criteria for automatic deletion apply to the most current study of a patient.

If the criteria for automatic deletion are fulfilled - status in the MammoBrowser is Read (2x Differ or 2x Equal), and the date of the current study is X days ago - the complete patient information comprising all images and CAD SRs of all available studies is deleted, so that the patient disappears from both the *syngo* Patient List and the MammoBrowser.

If disk space limit is reached according to the Warning Level a warning displays, and automatic deletion starts.

- Warning Level - 50% (default).
If hard disk is 50%full, the automatic deletion starts.
- Critical Level - 90% (default/recommended is 95%).
If hard disk is filled 90%, the system will not accept further images.
- Age of Studies - X days
The patient will be automatically deleted X days after the last image of the most current study of the patient has arrived on the SCR system.

NOTE

**This process will be initialized only when no user is logged in.
Do not lock the computer, because no automatic deletion will take place.**

Delete unread studies

- If this checkbox is checked automatic deletion is done independently of the "Read" state (i.e. "Read" and "Not Read" patients are deleted).
- If this checkbox is not checked, automatic deletion is done only on "Read" cases ("Read", "2x differ" or "2x equal").

Fig. 2 Window to select No automatic deletion of a case

The system checks regularly for each patient in the MammoBrowser when the corresponding DICOM images and CAD SRs of the most current study have arrived. If all images and CAD SRs are stored longer than X days, the system deletes all DICOM images, all CAD SRs, and all prepared images. The patient disappears then from both the syngo Patient Browser and the MammoBrowser.

Criteria to prevent patients from automatic deletion:

- - Images of the patient are scheduled in a session
- - The patient is locked (only available in Reporting: Closing a Case)
- - the patient has the attribute **No automatic deletion**

How to set the attribute No automatic deletion

1. Right click on patient in the MammoBrowser to open a settings window.
2. Select **No automatic deletion** check box to protect case against automatic deletion.
3. Click **OK** to confirm.

Consequences of Automatic Deletion

- The original DICOM images and prepared images (tiff images) of read cases that fulfill the criteria above will be deleted.
- The corresponding patients disappear from the MammoBrowser, but the diagnostic data (marking, annotations, etc.) are kept safe in the database.
- If it is necessary to access the diagnostic data and optionally the html report of such a deleted patient, the images of this patient need to be re-sent from the PACS or AWS.

Preventing Hard Disk Overflow

This functionality is part of the Settings tab. The Threshold is a mechanism to avoid storage space overflow. Such a storage space overflow leads to system instability.

- The threshold functionality provides two message levels that are displayed to all users independent of their rights.

NOTICE

The threshold functionality is performed automatically and cannot be manipulated in any way by any user.

A service user can set different configurations to avoid storage overflow:

- set the system to Automatic Deletion (of images) On/Off
- configure the warning level (range from 50% up to 85%) - by default the warning level is set to 80%

WARNING

If Automatic Deletion setting is Off, the Case Administrator has to delete images/reports of patients when they have been read. This has to be done on a regular basis to ensure that enough disk space is available.

- configure the critical level (range from 80% up to 95% - by default the critical level is set to 90%).

NOTICE

The critical level has to be higher than the warning level. Do not enter values like 0 or negative values.

Warning Level

The user is informed by a warning message when there is less than a certain amount of storage space left, and the Case Administrator user can delete data before the critical level is reached.

The system checks the database regularly (every minute) to inform the user about the available disk space, when a certain disk fill percentage is exceeded.

If the warning level has been detected and a warning message pops up, a follow-up message is displayed every 20 minutes. Whenever switching between user interfaces (Reviewing, Administration) the message is displayed again. An administrator can take appropriate measures within this sufficient time frame, whereas the checking itself is continuously done every minute.

NOTICE

The warning messages are only displayed when a user is logged into the system.

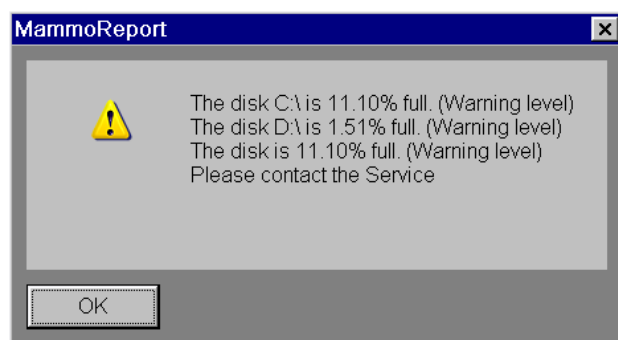


Fig. 3 Warning Level message

Critical Level

The system does not accept DICOM images any more when the critical amount of storage space is reached. This is to avoid a storage space overflow.

If the critical level has been detected the following message informs the user:

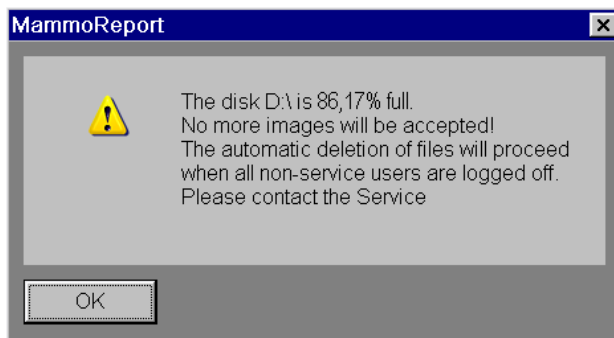


Fig. 4 Critical Level message

Read State Synchronization

Clicking the Synchronization button starts an overall synchronization with other configured system(s). The time for automatic overall synchronization and the IP addresses of the sync receivers are to be configured in **C:\MBCSCR\SyncConfiguration.ini** (see also Read State Synchronization, page 5-13).

If the synchronization fails (e.g. because the other workplace is down or disconnected from network), a message at the sync sender informs the user.

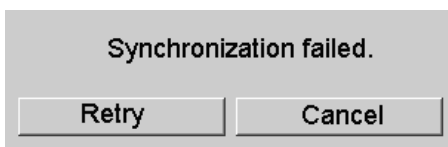


Fig. 5 Synchronization error message

If the user selects **Cancel**, then the overall synchronization will take this failed patient into account and try a synchronization at the next configured synchronization time. If **Retry** is clicked, the sync process is started again.

Data Sheet

(These settings are optional, to be configured in **C:\MBCSCR\SyncConfiguration.ini**)

See also Read State Synchronization, page 5-13

Parameter	Value	Remarks
Timeout		value in seconds
IP Address 1		
Port No.		
Synctime		
Synctime 2		optional
Synctime 3		optional
IP Address 2		
Port No.		
Synctime		
Synctime 2		optional
Synctime 3		optional

Tab. 1 Read State Synchronization data sheet

NOTE

Do not enter more than 3 *Synctime* values.

For *Synctime* entries use a time zone where there is less network traffic and database operations on the *syngo* MammoReport system, e. g. in the night or prior to the start of work in the morning.

NOTE

We recommend that you enter different synchronization times at all connected workplaces to avoid a network traffic overload.

Settings in Windows XP

These settings are necessary if the read state of the patients has to be synchronized with other workplaces.

NOTE

Read State Synchronization is a license protected feature.

Read state synchronization is configured in **C:\MBCSCR\SyncConfiguration.ini**.

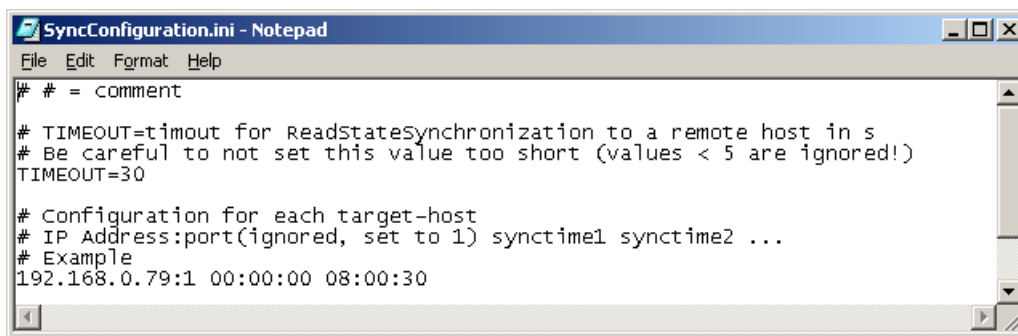


Fig. 1 SyncConfiguration.ini

The following parameters can be set in SyncConfiguration.ini:

- timeout in seconds (e.g. TIMEOUT=30)
- IP address and port of remote host (IPaddress:port)
- time of automatic synchronization (maximal 3 sync times can be entered)

Example:

```

TIMEOUT=30
186.168.0.86:1 00:00:00 08:00:30
182.148.0.88:1 00:01:00 09:00:30
  
```

The read state synchronization can be done manually by SCR Administration in the Settings Tab.

NOTE

Do not enter more than 3 *Synctime* values.

For *Synctime* entries use a timezone where there is less network traffic and database operations on the *syngo* MammoReport system, e. g. in the night or prior to the start of work in the morning.

NOTE

We recommend that you enter different synchronization times at all connected workplaces to avoid a network traffic overload.

Settings in syngo Local Service

Defining Host:

If Read Synchronization between *syngo* MammoReport workstations will be established, the **other workstation(s)** need to be **defined as hosts**. Example: the first workstation that will be synchronized is named CELSIUS01.

1. Enter e.g. CELSIUS01 as **Host Name**, with the corresponding IP address as shown in the following figure.

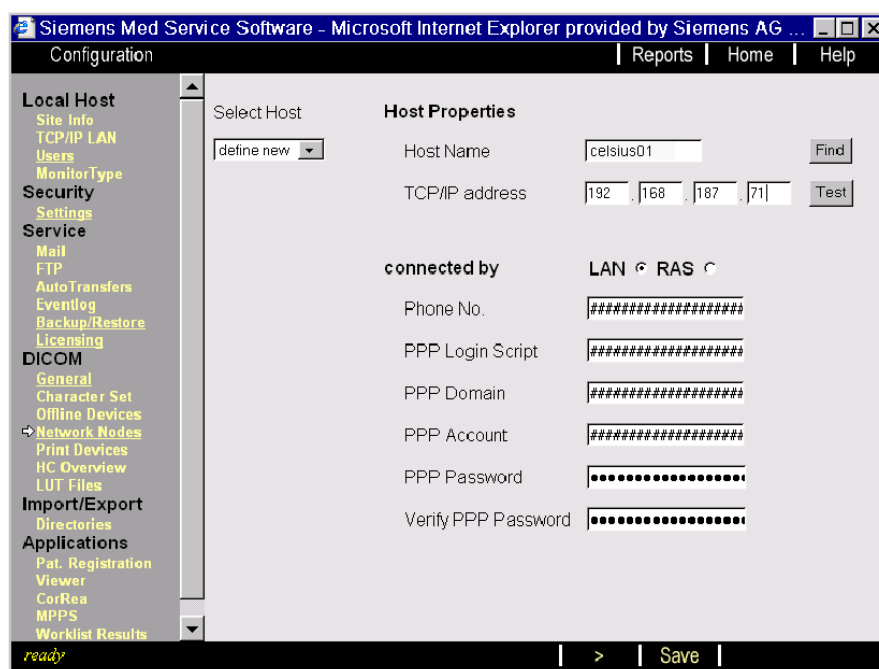


Fig. 2 DICOM network nodes settings

2. Click **Save**.
3. When a message confirming successful save appears, click **OK**.
4. Then click **Next**.

In addition **two special ports (4745 for sending / 4746 for receiving)** and the read status of patients need to be opened. For this purpose **define two AETs** with these ports as network nodes. The logical names and AETs should be defined according to the following convention.

Defining Receiver

1. Select **Host** of **other workstation** (e.g. celsius01 as configured in the previous steps).
2. Define new **Logical Name** and **AE Title** "CELSIUS01_REC", Port Number must be **4746**.
3. Select DICOM service **Storage**.

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG Medic...

Configuration | Reports | Home | Help

Local Host

- Site Info
- TCP/IP LAN
- Users
- MonitorType

Security

- Settings

Service

- Mail
- FTP
- AutoTransfers
- Eventlog
- Backup/Restore
- Licensing

DICOM

- General
- Character Set
- Offline Devices
- Network Nodes
- Print Devices
- HC Overview
- LUT Files

Import/Export

- Directories

Applications

- Pat. Registration
- Viewer
- CorRea
- MPPS
- Worklist Results

General Node Properties

Logical Name: [define new] edit Name: CELSIUS01_REC

Host: celsius01

Application Entity Properties

AE Title: [define new] edit AE Title: CELSIUS01_REC Add

Port Number: 4746 Verification

Supported DICOM services

☒ Storage

Transfer Syntax: [Implicit Little Endian] [Explicit Little Endian] [Explicit Big Endian]

Compression: [JPEG Lossy] [JPEG Lossless]

Default Node: [not default node]

Preference Node: ☐

Archive Node: ☐

Default Archive: ☐

Graphics in pixel data: ☐

uses Storage Commitment (SC)

select SC node: [not available]

select SC AET: [not available]

SC Result in same association: ☐

SC result time out: [-] [h] [-] [min]

☐ Storage Commitment

☐ Query

☐ Retrieve

ready | < | Finish | Save |

Fig. 3 Defining Network Node Receiver

4. Click **Add** and **Save**.
5. Accept the message displayed by clicking **OK**.

Defining Sender

1. Select Host **celsius01** again.
2. Define new **Logical Name** and **AE Title** "CELSIUS01_SEND", Port Number must be **4745**.
3. Select DICOM Service **Storage**.

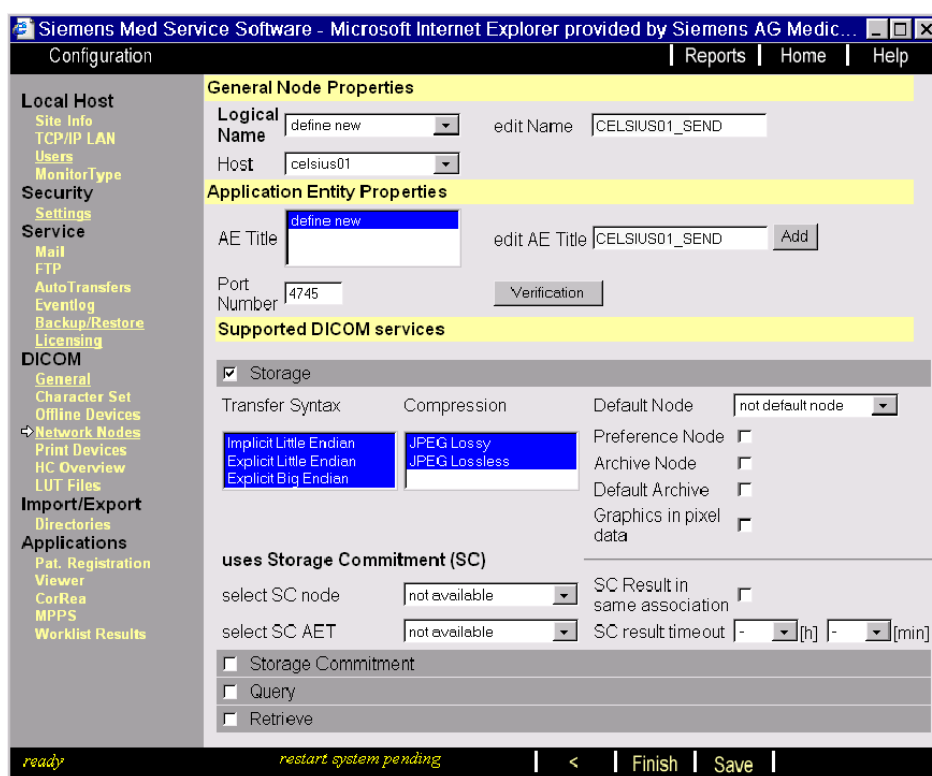


Fig. 4 Defining Network Node Sender

4. Click **Add** and **Save**.
5. Accept the displayed message by clicking **OK**.

Defining a Second Workstation for Read State Synchronization

If a second *syngo* MammoReport system is synchronized, define this workstation as host as well, and open the two ports 4745 and 4746 by defining two network nodes on this host. Repeat steps 1-10 with that workstation name, e.g. CELSIUS03 instead of CELSIUS01.

Licensing

The Read State Synchronization functionality is an optional license protected feature of *syngo* MammoReport software.

To enter Licensing settings follow the steps below:

1. Select **Licensing** tab. The Licensing Window is displayed.
2. Enter feature **MBC-SYNC** into the field **Feature**.
3. Enter 3.0 into the field **Generation**.
4. Enter license number into the field **License**.
5. Click **Check**. If the entered values are correct, a new entry appears in the licenses list.

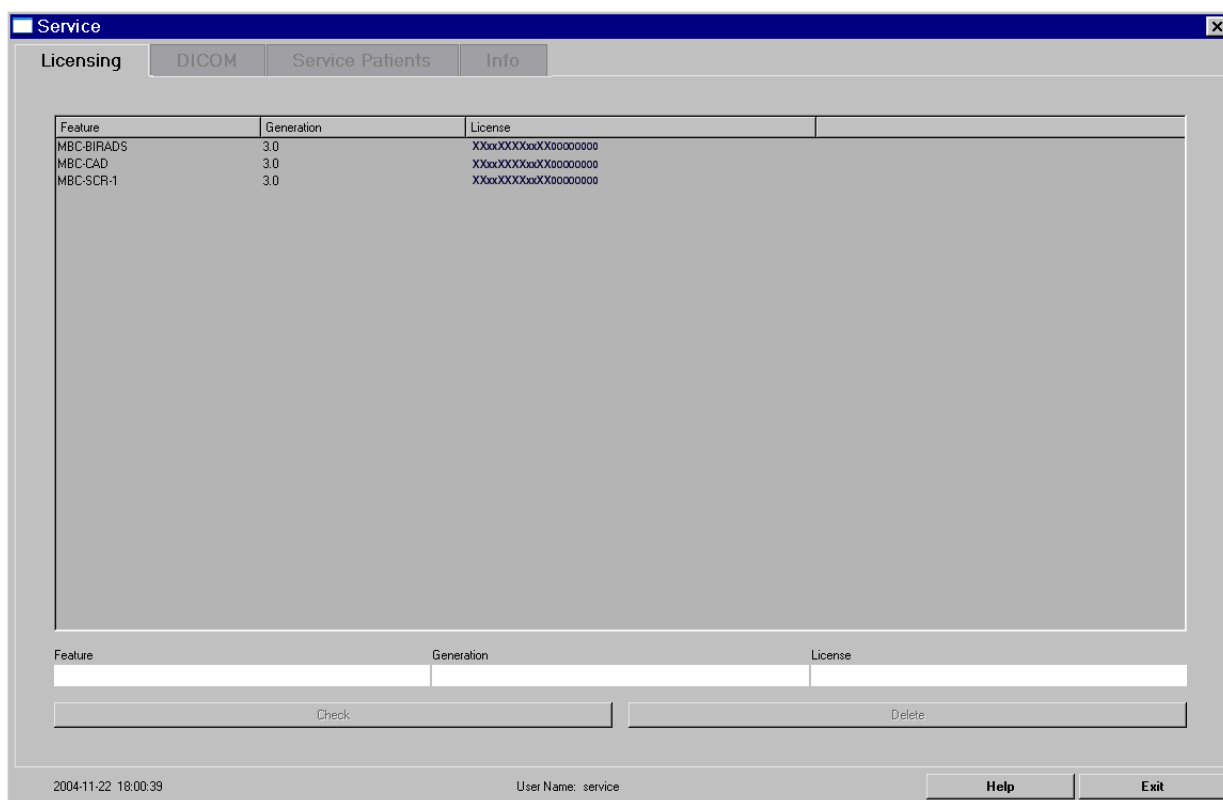


Fig. 5 User Interface for the License Management

Read State Synchronization

Clicking the Synchronization button starts an overall synchronization with other configured system(s). The time for automatic overall synchronization and the IP addresses of the sync receivers are configured in **C:\MBCSCR\SyncConfiguration.ini** (see also Read State Synchronization, page 5-13).

If the synchronization fails (e.g. because the other workplace is down or disconnected from network), a message at the sync sender informs the user.

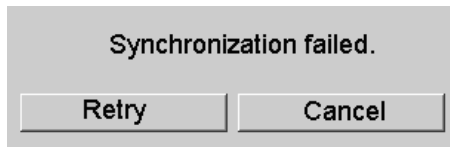


Fig. 6 Synchronization error message

If the user selects **Cancel**, then the overall synchronization will take this failed patient into account and try a synchronization at the next configured synchronization time. If **Retry** is clicked, the sync process is started again.

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Siemens Remote Service

General information

Since the MammoReport is syngo based, the syngo from VB11C onwards should be connected to "Siemens Remote Service."

The "SIEMENS Remote Services" will support router or VPN connections only.

A VPN should be used via a broadband connection.

The project manager is responsible for implementing a router connection to the Siemens Remote Diagnostic server. If you have any questions about your pre-configured router from Siemens, please contact mailto:srs_final@med.siemens.de or your remote diagnostic technician. A detailed description of the SRS installation is available in the 'Installation of Siemens Remote Service, SP00-000.816.02.02.02' manual.

Procedure

The *syngo* MammoReport must be connected to an ISDN router, analog router, or VPN in order to be able to access Siemens Remote Service. The *syngo* MammoReport must have been known and configured in the SRS environment.

For a detailed description, see the document "Installation of Siemens Remote Service, SP00-000.816.02...", section on "SRS Configuration".

- Enable remote access, "Limited Access, permanent" within the user interface "Option/ Service/ Remote Service."
- Enter the local service/ "Configuration."
- Select **Service/ FTP** and enter the FTP Host and IP address according to your time zone:

Global zone	Server location	Siemens Remote Access Server
Time zone I (Europe, Africa)	Fürth	Name: LUX09505 / IP: 194.138.39.18
Time zone II (America)	Newark	Name: SRSACC1 / IP: 129.73.116.92
Time zone III (Asia, Australia)	Singapore	Name: SGPT806x / IP: 194.138.243.178

The screenshot shows the 'Configuration' window of the Siemens Med Service Software. The left sidebar contains a tree view with categories like Local Host, Security, Service, DICOM, Import/Export, External Devices, System Mgmt., and Applications. The main area is divided into 'Select Host' and 'Host Properties'. Under 'Host Properties', there are fields for Host Name (lux09505), TCP/IP address (194.138.39.18), and a 'connected by' section with radio buttons for LAN (selected) and RAS. Below these are fields for Phone No., PPP Login Script, PPP Domain, PPP Account, PPP Password, and Verify PPP Password, all masked with asterisks. At the bottom, there are buttons for '>', 'Save', and 'Delete'.

- Click **Save** and then ">"
- Enter **SRS_FTP** in the **Logical Name** field.
- From the selection bar, select the **FTP Host** you created.
- Enter **rdiagftp** in the FTP user field.
- Enter the password **siemens** twice.

The screenshot shows the same 'Configuration' window, but now the 'Logical Name' field is set to 'SRS_FTP'. The 'FTP Host Selection' dropdown is also set to 'lux09505'. The 'FTP user' field is set to 'rdiagftp'. The 'Password' field is masked with asterisks. The 'Save' and '>' buttons are still visible at the bottom.

- Click **Save**.

Routing configuration

Within the network the *syngo* MammoReport must be able to reach the SRS environment via the SRS router in the hospital.

- Check routing from the *syngo* MammoReport to the Siemens Remote Access Server.
 - If the *syngo* MammoReport and the hospital SRS router (ISDN, analog or VPN address) are in the same subnet:
Configure a static route under local service/ Utilities/ Escape to OS:
> route add -p "SRS environment" mask 255.255.255.0 "router IP address"
e.g. fürth and ISDN router 192.168.237.254:
>route add -p 194.138.39.0 mask 255.255.255.0 192.168.237.254

Global zone	Server location	SRS environment
Time zone I (Europe, Africa)	Fürth	194.138.39.0/ mask 255.255.255.0
Time zone II (America)	Newark	129.73.116.0/ mask 255.255.255.0
Time zone III (Asia, Australia)	Singapore	194.138.243.0/ mask 255.255.255.0

- If the *syngo* MammoReport and the hospital SRS router (ISDN, analog or VPN address) are not in the same subnet:
Enter the standard gateway IP address under "Local service/Configuration/ TCP/IP/ Gateway"
The local administrator has to configure the gateway for routing.

Run a connectivity test to the Siemens Remote environment.

- From the Service Software Home Menu, select Utilities -> Escape to OS
- Under Command, select NT Command Interpreter
- Within the NT Command Interpreter under Parameters, enter one of the following commands and execute it by pressing <CR> or clicking <GO>. The tracert program takes a while before the data is displayed. When the mouse is moved into the frame, the hourglass indicates that the program is executing.

tracert 194.138.39.18	Command executing from time zone I
tracert 129.73.116.92	Command executing from time zone II
tracert 194.138.243.178	Command executing from time zone III

System Management

General information

The System Management functionalities are available (CA Unicenter) for the *syngo* MammoReport from version VB11C onward (Syngo Version VD20N - Windows XP).

The *syngo* MammoReport software contains the "Manage Node Package" for System Management. Configuration of System Management is therefore recommended.

CA Unicenter provides a software distribution function that enables the system software to be updated remotely; e.g., a virus pattern update.

In addition, the System Management software will monitor the system performance for continuity.

The CA Unicenter servers are located within the SRS environment in Fürth and in Newark. SP systems connected to Singapore use the CA environment in Newark (see note "for sites within time zone III only").

Global zone	Server location	CA Unicenter
Time zone I (Europe, Africa)	Fürth	Name: fthw9mva / IP: 194.138.39.22
Time zone II (America)	Newark	Name: SRSSQL03 / IP: 129.73.116.94
Time zone III (Asia, Australia)	Newark	Name: SRSSQL03 / IP: 129.73.116.94
(*) ...No System Management Server is available in Singapore, systems in this zone report to Newark.		

Prerequisite

The SRS connectivity from the modality to the Siemens Remote environment of your time zone is available and tested. (refer to the document "Installation of SRS, SP00-000.816.02...").

A wide band connection via VPN needs to be used.

For sites within time zone III only (Asia, Australia)

Ignore this section if the SRS router is entered on the SP system as the default gateway under the TCP/ IP settings.

If a static route is used from the SP system to access the SRS environment, then 2 static routes have to be entered as described in the document "Installation of SRS, SP00-000.816.02..., Chapter Configuration". You can check the entry by entering command `route print -p` in the command interpreter (Escape to OS).

For SRS in Singapore	route add -p 194.138.243.0 mask 255.255.255.0 <IP_SRS_router>
For System Management Server in Singapore	route add -p 129.73.116.0 mask 255.255.255.0 <IP_SRS_router>

Procedure

Before setting up the System Management functionalities the Siemens Remote environment must be reachable.

- Connectivity Check
- From the Service Software Home Menu, select Utilities -> Escape to OS
- Under Command, select NT Command Interpreter
- Within the NT Command Interpreter under Parameters, enter one of the following command and execute it by pressing <CR> or clicking <GO>. The tracert program takes a while before the data is displayed. When moving the mouse into the frame, the hourglass indicates that the program is executing

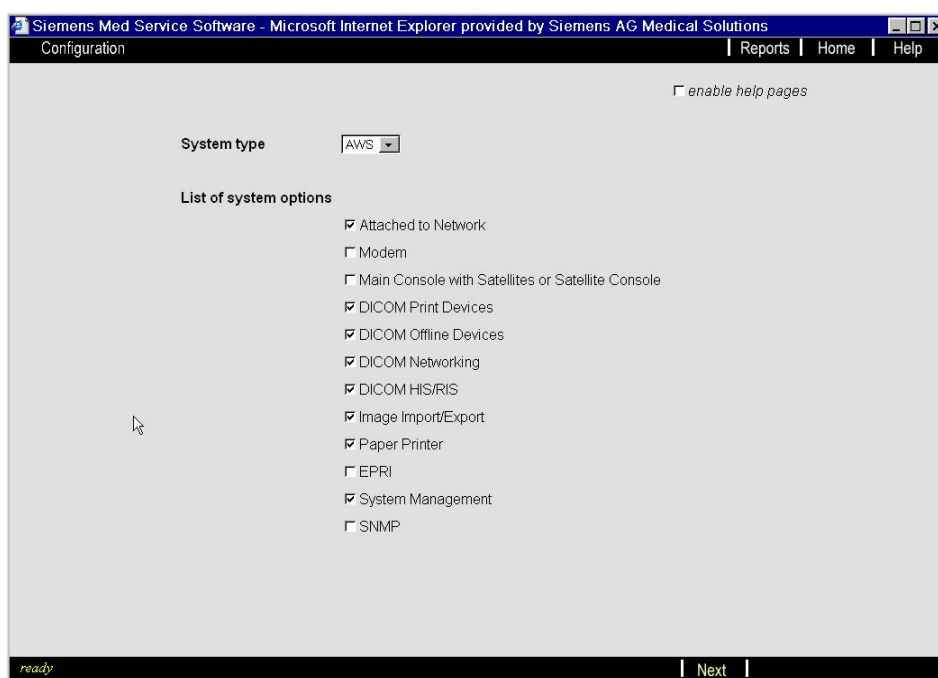
tracert 194.138.39.22	Command executing from time zone I
tracert 129.73.116.94	Command executing from time zone II, III

NOTE

To establish the connection may need some time. As a result, the tracert program may time out. Repeat the tracert command and check the function again. Do not continue with the installation if the connectivity test fails.

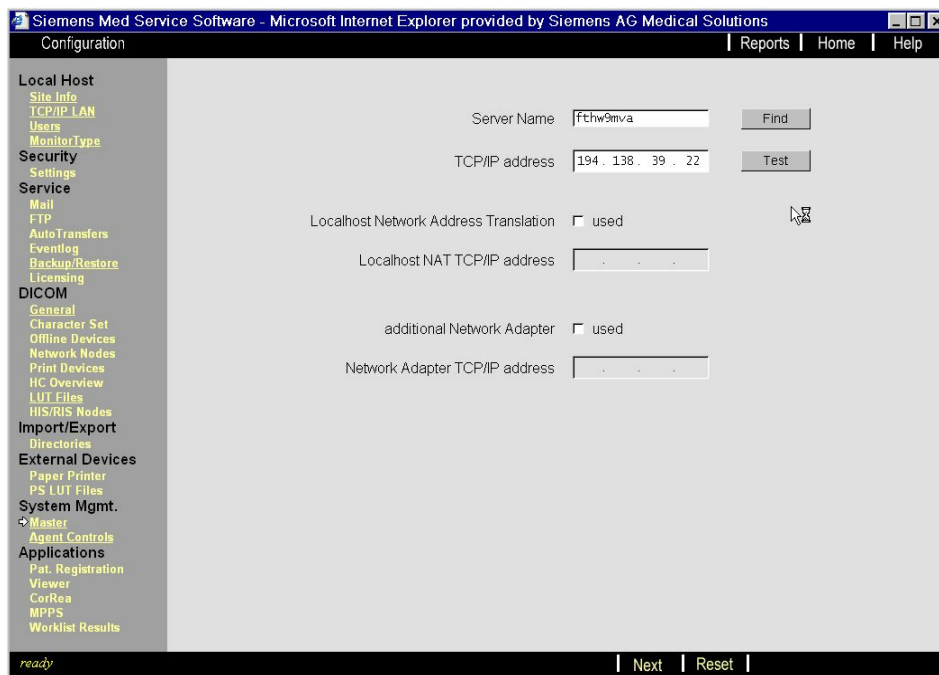
Installation procedure

- Select Local Service --> Configuration
- In the next window enable System Management in the option list and click <Next> twice.



- Enter Server Name and IP address of your System Management server of your zone

Global zone	Server location	CA Unicenter
Time zone I (Europe, Africa)	Fürth	Name: fthw9mva / IP: 194.138.39.22
Time zone II (America)	Newark	Name: SRSSQL03 / IP: 129.73.116.94
Time zone III (Asia, Australia)	Newark	Name: SRSSQL03 / IP: 129.73.116.94
(*) ...No System Management Server is available in Singapore, systems in this zone report to Newark.		

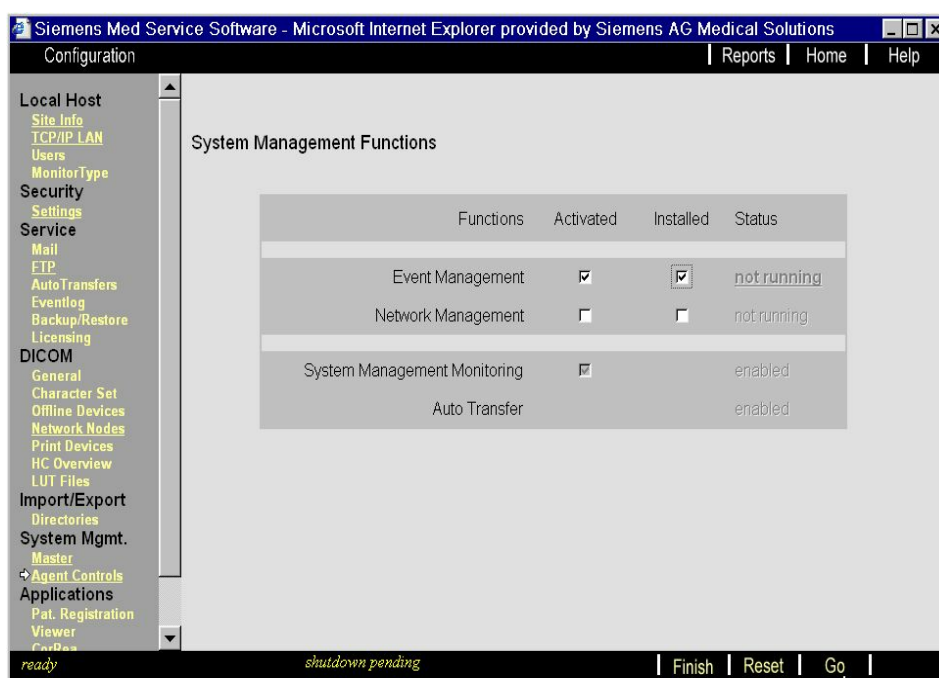


- If NAT (Network Address Translation) is used, enter the appropriate network address. If you are not sure, ask the SRS Help Desk.

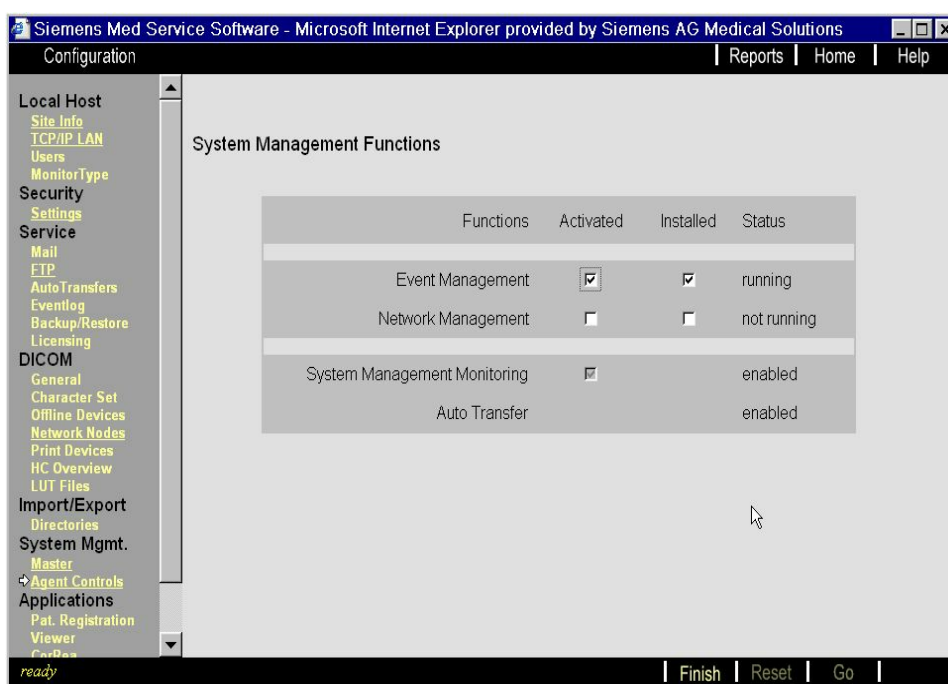
NOTE

The SRS database can handle only unique IP addresses for modalities. For modalities in the field with identical IP addresses a pseudo IP address from the SRS Help desk will be created and handled with the NAT (Network Address Translation) tool.

- Click **Next**.
- Check the boxes as shown and click on **GO**.
 - The System Management registration and installation of templates starts. This takes approximately 15 minutes.
 - If the installation of System Management fails, the “Siemens Remote Access Server” or the “Software Distribution Server” are probably not reachable from your node. Please check the following points:
 - Reboot the system and try once again to configure the System Management.
 - You will find System Management installation logfiles in C:\temp\sysmgmt_install.log.
 - Make sure that the Siemens Remote environment is reachable. Do a tracert command as described in the “Connectivity Check” paragraph in this section.
 - Check whether your system needs a static route or whether it routes over a gateway in the hospital. (Refer to the document "Installation of SRS, SP00-000.816.02...").
 - Contact the SRS help desk for support.



- After the installation is successfully completed, close the configuration menu and reboot the system.



General

A backup of system specific data, such as customer configuration entries, network nodes and AETs is mandatory after software updates or system adjustment steps.



If subsequent changes (e.g. in the configuration) are made, the corresponding backup package must be saved again.

Save Customized Settings

After setting all configurations successfully, an image backup of the system disk is created on a CD-R (R610) or DVD-R (R630). With a disk image, the start-up status can be restored ensuring continued system functionality.

Since the High resolution monitors are unable to display VGA graphics, the instructions in this chapter are monitored on the syngo monitor.

Step 1: Preparing the System for Recovery CD Creation

1. Make sure that no or only a few patients are available in the Patient Browser.
2. If there are many patients, delete them in the Patient Browser first, then log out from the system for at least 1 minute.
3. Log in again and check that the Patient Browser is empty.
4. Select in the menu **Options - End Session**. In the **End Session** dialog select **Shutdown**.
5. Turn on the computer again and hold the **Shift key** pressed to log in as OS administrator.
6. Check the size of the **IMAGE** directory on F: and the **SCRData** directory on F: (G: if the system contains an optional hard disk).
7. Make sure that there is enough hard disk space on C: for the data from F: (and G: if the system contains an optional hard disk).

- for disk type **Basic** (without optional disk), run batch
C:\MBCSCR\SQLScripts\Prepare4Recovery_basic.bat
- for disk type **Option** (with optional disk G:\), run batch
C:\MBCSCR\SQLScripts\Prepare4Recovery_option.bat

8. The batch stops after copying the syngo Image directory to C:
9. Check that no error is displayed. Press any key.
10. The batch stops before copying the **SCRData** directory to C:
11. When there is enough space on C: press any key to continue.
12. The batch stops right after the message **batch is finished** displays.
13. Press any key to close the DOS box.

14. Check that there is a shared **Image** directory on C:
15. Starting Ghost:
 - Insert the Ghost 2003 floppy into the floppy drive or
 - Insert the Installation DVD into the DVD drive D:
16. Press windows key and select **Shutdown** to shutdown the computer.
17. Turn on the computer and enter BIOS with **F2**. Enter the correct BIOS password.
18. Enable booting (depends on step 15):
 - from floppy or
 - from CD
19. Exit BIOS setup with **F10** (save and exit).

Step 2: Running Ghost

1. syngo monitor shows **Starting PC DOS...**
2. Wait until the following menu appears:
 - 1 - Backup system drive
 - 2 - use GHOST interactive
 - E - ExitYour choice [1,2,E]?
 - 3. Type **2** on the keyboard.
 - 4. Wait until **About Norton Ghost** screen appears.
 - 5. Click **OK**.
 - 6. Select in the next menu **Local - Disk - To Image**.
 - 7. Select Drive 1 in the **Select local source drive...** dialog.
 - 8. Click **OK**.
 - 9. In the next dialog **File name to copy image to**, select in **Look in**: the **PLEXTOR** drive.
 - 10. Click the **Save** button beside the **File name: CDR00001.GHO**.
 - 11. In the dialog **Compress image file?** select **High**.
 - 12. In the dialog **Copy a bootable floppy to the CD/DVD disk?**
 - **Select Yes, if using the floppy disk**
In the next dialog **Is the floppy disk ready in drive a:?** select **Yes**.
The status bar shows that the floppy is read.
 - **Select No, if using the DVD**. No dialogs will appear.

13. A question appears *Proceed with Drive Backup to CD/DVD? About <no1> CDs or <no2> DVDs will be needed.*

NOTE

You will not need as many CDs as specified in the dialog, about 3-4 CDs will be necessary.

14. Select **Yes**.

⚠ WARNING

Spanned NTFS images on removable media may result in excessive media swaps. If Ghost Explorer - continue? is displayed select **Yes**.

15. The progress indicator starts.
16. When system asks for next CD, remove the already finished CD and insert the next blank CD.
17. When recovery CD creation is finished, click **Continue** and quit Ghost.
18. Label the CDs with ***Recovery CD / computer name / date / and CD number x of y.***

Step 3: Prepare the System after Recovery CD Creation

1. Reboot the computer with shift key pressed and log in as OS administrator.
2. Run one of the following batches:

- for disk type **Basic** (without optional disk), run batch
C:\MBCSCR\SQLScripts\PostRecovery_basic.bat
- for disk type **Option** (with optional disk G:\), run batch
C:\MBCSCR\SQLScripts\PostRecovery_option.bat

3. Press any key when prompted to do so.
4. The DOS window disappears when the batch is finished.
5. Restart the computer and enter BIOS with **F2**.
6. Enter the correct BIOS password, and disable booting from floppy drive.
7. Exit BIOS with **F10** (save and exit).
8. System is re-booted, and the login window displays.

Restore Recovery CD

Step 1: Preparing the System for Restore of Recovery CD

1. Starting Ghost:

- Insert the Ghost 2003 floppy into the floppy drive or
- Insert the Installation DVD into the DVD drive D:

2. Press the Windows key and select **Shutdown** to shutdown the computer.
3. Turn on the computer and enter BIOS with **F2**. Enter the correct BIOS password.
4. Enable booting (depends on step 15):

- from floppy or
- from DVD

5. Exit BIOS setup with **F10** (save and exit).

Step 2: Running Ghost

1. Insert **CD 1 of y** into the CD Writer and boot the computer directly from CD.
2. A **boot menu** appears on the screen.
The menu consists of two steps:
Microsoft Windows 98 Start menu
 1. ... System drive
 2. Use Ghost interactive
3. Choose **2: Use Ghost interactive**
4. Click **Continue without marking drives** if this question is shown.
5. In **About** select **OK**.
6. Select in menu Local ⇒ Disk ⇒ **From image**.
7. In **Image file name to restore from** select **Look in:** drive R [...] CD ROM drive
8. Select file ***1.GHO**.
9. In **Select local destination...**: choose **Drive 1** and confirm with **OK**.
10. In **Destination drive details** click **OK**.
11. Confirm question **Proceed with disk restore...** with **Yes**. Installation of image begins. **Progress indicator is running**.
12. Insert new CD when required until message appears: **Clone complete...** ⇒ click **Reset Computer**.
13. During restart
 - **remove CD** from CD Writer
 - and either Installation DVD from DVD drive
 - or Floppy from floppy driveand press **Shift key** while booting to log in as OS user administrator.

14. Accept the message "System Settings Changed" and click Yes to reboot the computer. Press shift key to login as OS user administrator.
15. Check that drive assignments are correct, and data disk(s) are available and empty:
 - DVD-drive D:
 - CD-writer E: (only for R610)
 - MED_DATA F:
 - if applicable SCR_DATA G:
 - You may need to import foreign disk F: and if applicable G:
16. Run one of the following batches:

- for disk type **Basic** (without optional disk), run batch C:\MBCSCR\SQLScripts\PostRecovery_basic.bat
- for disk type **Option** (with optional disk G:\), run batch C:\MBCSCR\SQLScripts\PostRecovery_option.bat

17. Press any key when prompted to do so.
18. The DOS window disappears when the batch is finished.
19. Shut down the computer.

Step 3: Prepare the System after Restore of Recovery CD

1. Enter the correct BIOS password, and disable booting from floppy drive.
2. Exit BIOS with **F10** (save and exit).
3. System is re-booted, and the login window displays.

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Backup of Configuration Files

1. **Restart** computer via syngo **End Session** dialog.
2. Press shift key while booting and **log in as OS administrator**.
3. Run batch **C:\MBCSCR\SQLScripts\CollectInis.bat** by double clicking on it.
4. A new directory will be created: **C:\MBCSCR\IniBackup\VB11C** - comprising all ini and configuration files.

NOTE

Do not rename any of the files or folders in this directory.

Calling the batch file CollectInis.bat several times will overwrite the previous result.

5. Copy the folder **C:\MBCSCR\IniBackup\VB11C** to **C:\syngo\TEMP\CDR_OFFLINE**.

NOTE

CDR_OFFLINE must be empty before starting the export of configuration files to CD.

If there are any files in CDR_OFFLINE move them to a temporary folder on C:. Those files must be moved back after CD burning.

6. **Restart** computer and log in as **syngo administrator**.
7. Open **syngo PatientBrowser** and **insert empty CD-R to D:**.
8. To enable menu **Transfer** ⇒ **Export from Offline** the **Local Network Status must be empty** - clear it if necessary.
9. Start CD burning with **Transfer** ⇒ **Record Off-line Files** - there is no message, but CD writer shows burning activity with blinking orange light.
10. CD burning ends with ejecting the CD - **remove CD** and close the drive.
11. **Label** Backup CD as **SCR Configuration Files** with computer name, software version, date and special settings (if any).
12. Check that CD contents can be read and **archive** the CD.
13. **Delete** folder **VB11C** from **C:\MBCSCR\IniBackup**.

NOTE

If any files were moved from CDR_OFFLINE to a temporary folder on C: move them back now.

Restore of Configuration Files:

NOTE

Only configuration files that were backed up using CollectInis.bat can be restored.

It is only possible to restore configuration files within the same software version.

1. **Restart** computer via syngo **End Session** dialog.
2. Press shift key while booting and **log in as OS administrator**.

3. Check that directory **C:\MBCSCR\IniBackup\<current software version>** is not available - otherwise make a copy to hard disk or CD first (see Backup of Configuration Files, page 12-1).
4. Insert Backup CD **SCR Configuration Files** into DVD drive D:\ and copy folder **<current software version>** to **C:\MBCSCR\IniBackup**.
5. Run batch **C:\MBCSCR\SQLScripts\DistributInis.bat** with double click.
6. The ini and configuration files will be restored.

NOTE

The corresponding existing files will be overwritten.

7. **Remove CD** from drive and **restart** computer.

Backup and Restore of the MBC Database

The **SCR Administration** Tab provides a backup and restore functionality for the database including user data, user preferences, patient data, markings, annotations, and diagnosis. Users with administrator rights have access to these functionalities.

NOTE

This functionality is only valid for the SCR part. Backups can be saved manually on CD. This can be done only by a Service user. Detailed information is described in the Technical Manual.

NOTE

It is recommended that database backups shall be done on a regular basis, in order to ensure that no data is lost in the event of system failure.

Making a Backup

1. Click on **Backup/Restore** in the Administration window.
2. The referring tab card opens.
3. Click **Backup**.
4. When a backup is finished the message **Backup completed** is displayed.

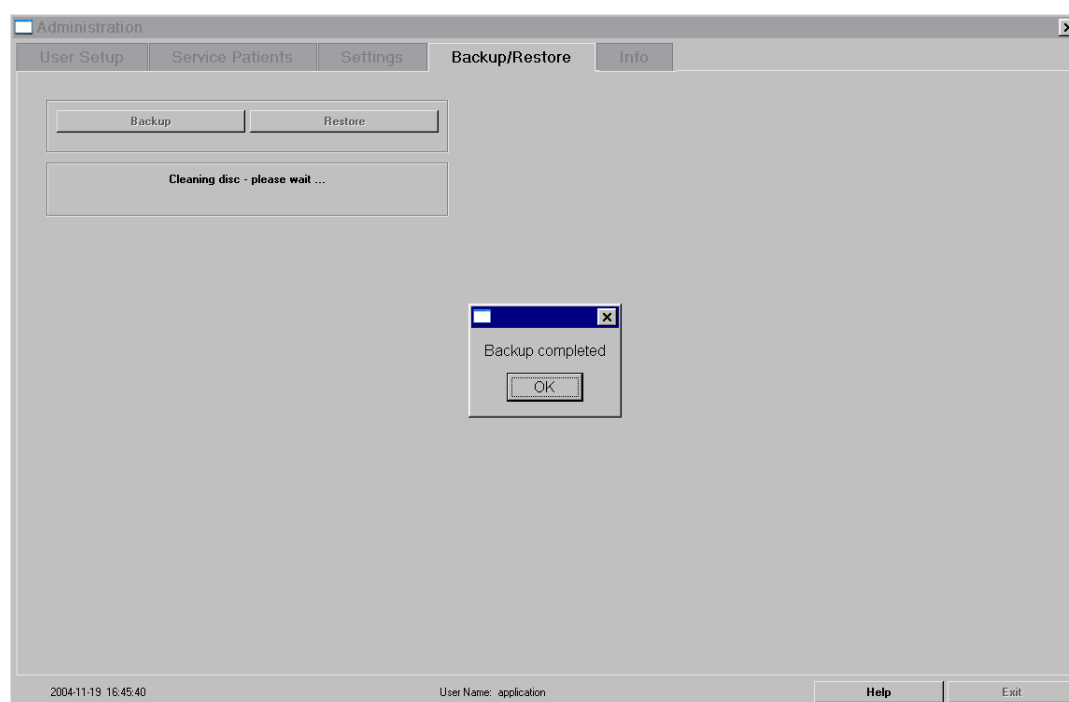


Fig. 1 Backup/Restore menu

NOTE

During a backup process no other functions are available.

If a backup is done for the very first time after installation, the following error message appears:

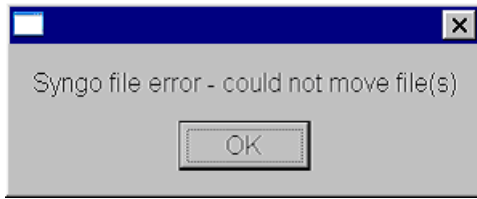


Fig. 2 Error message on very first backup after installation

If the backup is retried, a DOS box pops up for a short time and the backup is completed successfully.

Restoring a backup

NOTE

Customer needs to be informed before performing a database restore:

Restoring a database backup might overwrite newer reading results, such as reports, read status, annotations etc.

With **Restore** the database can be restored.

1. Click **Restore**.
2. The message **Collecting files, please wait ...** displays.
3. A new window opens containing all available backups with the current one at top of the list.
4. Select the backup you want to restore.

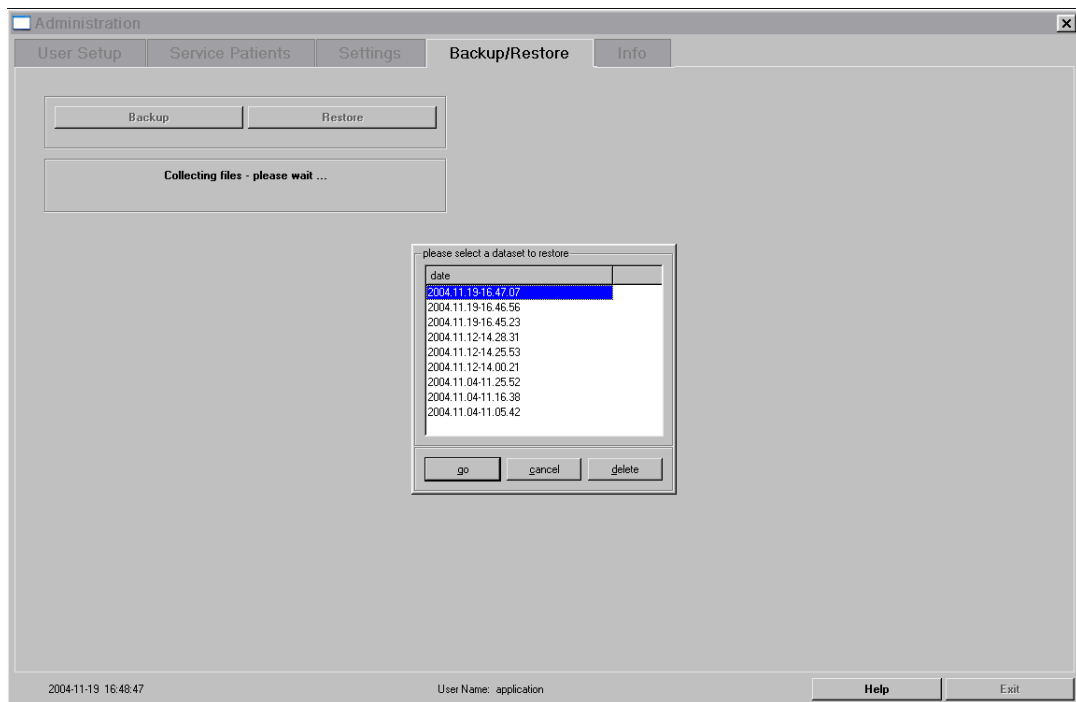


Fig. 3 Restoring the database

5. Click **Go** to start the restore process

NOTICE

During a restore process no other functions are available, and you have to restart the system afterwards.

NOTE

To reduce the content of this list, you may delete backups that are no longer needed.

Backup / Restore on syngo level

Furthermore, syngo provides the possibility for Backup/Restore of various settings (MRI Customer, SCR, Security Settings, SW Settings 02).

This shall be done as Local Service in the Service Software menu (see syngo-service document "Online Help - Backup and Restore" TD-00.000.880.10). For a backup four CD-ROMS are needed, one for each setting.

NOTE

If during a backup the SCR Package shows error message "path is not found ..." perform the following steps:

- in syngo Local Service delete the entry for SCR package
- restart system and log in as OS administrator
- insert Installation DVD and open folder D:\batch\all
- run batch „Import_SCR_BackupRestorePackage.bat“
- restart system and enter syngo Local Service:
-> Configuration -> Service -> Backup/Restore
- check that entry for SCR package shows:

package: "SCR"

groups: "Database\"

files & directories: "C:\MBCSCR\syngoBackup"

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Chapter	Page	Changes
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